HETEROPHASIC COPOLYMER			
Injection Molding		Extrusion, Thermoforming & Blow molding	
New	MFR	New	MFR
SP151	3.5	H1022	0.3
EP302K	3.5	H2464	0.3
EP200K	3.5	EPD60R	0.35
EP300K	4	EP300D	0.8
EP340K	4	EP310D	0.8
EP540L	6	EP400G	1.3
EP300L	6	EP440G	1.3
EP432L	6	EP302K	3.5
EP440L	6		
EP332L	7		
EP300M	7		
EP340M	7.5		
EP200M	8		
SP179	8		
EPX-3130UV	10		
EP540N	12		
EP440N	12		
EP548N	12		
BA238G3	12		
EP300N	15		
EP540P	15		
EP548P	16		
EP440R	20		
EP548R	21		
EP448S	40		
EP340S	42		
EP548S	44		
EP448T	48		
EPX-548T	50		
EP348U	70		
EP548U	70		
EP648V	100		

Jampilen EP302K

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP302K" is a medium flow, heterophasic polypropylene copolymer. This grade combines excellent stiffness with high impact and is suitable for injection molding and thermoforming. Due to its particular balance of mechanical properties, "Jampilen EP302K" is widely used for injection molding toys, sports articles, small containers, housewares, closures and caps. Technical applications are components for appliances and parts for the automotive industry.

Thermoformed containers are another important application of "Jampilen EP302K". This grade is suitable for food contact.

Processing Method:

Injection molding
Thermoforming

Features:

Excellent stiffness
High impact strength
Heterophasic copolymer

Typical Applications:

Toys
Sports articles
Small containers
Housewares
Closures and caps
Components for appliances and parts for the automotive industry

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	3.5	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1250	MPa	ASTM D790
Tensile Strength at Yield	29	MPa	ASTM D638
Tensile Elongation at Yield	9	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	120	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	25	J/m	ASTM D256
Rockwell Hardness	94	R-Scale	ASTM D785
Thermal			
Vicat softening point (10 N)	152	°C	ASTM D1525
H.D.T. (0.46 Mpa)	90	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	hour	ASTM D3012

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JAM Polypropylene

Jampilen EP200K

Heterophasic copolymer

Description:

"Jampilen EP200K" is a heterophasic copolymer for injection molding applications that combines outstanding processability with extremely high impact resistance.
"Jampilen EP200K" is designed for applications where very high toughness is a primary requirement. For these applications, very high impact polypropylene offer definite advantages over HDPE due to the better stackability and stress cracking resistance.
"Jampilen EP200K" is suitable for food contact.

Processing Method:

Injection molding
Compounding

Features:

Good processability
High impact resistance
Heterophasic copolymer

Typical Applications:

Housewares, toys, indoor and outdoor furniture and suitcases
Parts for sports equipment and bicycles and technical components
Boxes, containers, pallets, crates, pails and lids
Blow molded bottles and containers
Bitumen modification and various compounding applications

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	3.5	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1000	MPa	ASTM D790
Tensile Strength at Yield	23	MPa	ASTM D638
Tensile Elongation at Yield	10	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	750	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	100	J/m	ASTM D256
Izod Impact Strength (notched) at -40 ^{o}C	75	J/m	ASTM D256
Hardness (Rockwell)	80	R-Scale	ASTM D785
Thermal			
Vicat softening point (10N)	145	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	85	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hour	ASTM D3012

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Jampilen EP300K

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP300K" is a low fluidity heterophasic copolymer, suitable for injection molding applications. The product exhibits very high impact even at low temperatures combined with good stiffness.
"Jampilen EP300K" is typically used in houseware items and in crates.This grade is suitable for food contact.

Processing Method:

Injection molding
Thermoforming

Features:

High impact resistance
Good stiffness
Heterophasic copolymer

Typical Applications:

Housewares, seats, chair shells, toys, suitcases and small packaging items
Injection molded caps and closures
Medium sized containers, buckets, pails, transport crates and crates for cold storage
Components for industrial applications
Parts for the automotive industry (e.g. wheel arch liners, steering wheels and interior parts)
Blow molded bottles and containers
Thermoformed multilayer containers for dairy products

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	4.0	g/10min	ISO 1133
Density	0.9	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus	1200	MPa	ISO 527-1, -2
Tensile Strength at Yield	27	MPa	ISO 527-1, -2
Tensile Elongation at Yield	7	%	ISO 527-1, -2
Tensile Elongation at Break	>50	%	ISO 527-1, -2
Charpy impact strength (Notch A)		kJ/m^2	ISO 179
23°C	10.5		
0°C	5.5		
-20°C	4		
Ball indentation hardness (H 358/30)	53	MPa	ISO 2039-1
Thermal			
Vicat softening point A50	150	°C	ISO 306
H.D.T. B (0.45 MPa)	75	°C	ISO 75B-1, -2
Accelerated oven ageing in air at 150 °C	360	hour	ISO 4577

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Jampilen EP340K

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP340K" is a nucleated heterophasic copolymer suitable for injection molding and thermoforming applications. "Jampilen EP340K" exhibits outstanding low temperature impact performance and good stiffness combined with good processability. "Jampilen EP340K" is designed for use in luggage, transport and cold storage crates, sports and leisure equipment, toys and typical consumer components which are subjected to impact and/or low temperature.

Processing Method:

Injection molding
Thermoforming

Features:

High impact resistance
Good stiffness
Nucleated
Heterophasic copolymer

Typical Applications:

Sports, Leisure and Toys
Transport and cold storage crates
Luggage

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	4.0	g/10min	ISO 1133
Density	0.9	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Strength at Yield	20	MPa	ISO 527-1, -2
Tensile Elongation at Break	>50	%	ISO 527-1, -2
Tensile Elongation at Yield	5	%	ISO 527-1, -2
Charpy impact strength (Notch A)			ISO 179
23°C	66	kJ/m^2	
0°C	33	kJ/m^2	
-20°C	7	kJ/m^2	
Ball indentation hardness (H 358/30)	46	MPa	ISO 2039-1
Thermal			
Vicat softening point /A50	140	°C	ISO 306
H.D.T. B (0.45 MPa)	85	°C	ISO 75B-1, -2

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Jampilen EP540L

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP540L" is a medium flow heterophasic polypropylene copolymer with high stiffness and good impact strength. Items produced with "Jampilen EP540L" also feature excellent aesthetic properties, with high gloss and good stress whitening resistance. The grade is designed for molding small and medium sized rigid containers, packaging items and housewares. It is also recommended for toys, tools, caps and closures.
"Jampilen EP540L" is suitable for food contact.

Processing Method:

Injection molding

Features:

Excellent aesthetic properties
Good impact strength
High stiffness
Good stress whitening resistance
Heterophasic copolymer

Typical Applications:

Small and medium sized rigid containers
Packaging items and housewares
Toys
Caps and closures

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	6.0	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1450	MPa	ASTM D790
Tensile Strength at Yield	32	MPa	ASTM D638
Tensile Elongation at Yield	8	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	90	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	60	J/m	ASTM D256
Rockwell Hardness	100	R Scale	ASTM D785
Thermal			
Vicat softening point (10N)	152	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	115	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hours	ASTM D3012

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Jampilen EP300L

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP300L" is a heterophasic copolymer, suitable for injection molding applications which features good impact properties. "Jampilen EP300L" is used in a large variety of applications, such as housewares, crates, stackable boxes and toy articles.

Processing Method:

Injection molding

Features:

Good impact resistance
Heterophasic copolymer

Typical Applications:

Houasewares
Crates
Caps and closures
Sports, leisure and toys

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	6	g/10min	ISO 1133
Density	0.9	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus	1250	MPa	ISO 527-1, -2
Tensile Strength at Yield	26	MPa	ISO 527-1, -2
Tensile Elongation at Yield	8	%	ISO 527-1, -2
Tensile Elongation at Break	>50	%	ISO 527-1, -2
Charpy impact strength (Notch A)		kJ/m^2	ISO 179
23°C	7.5		
0°C	4		
-20°C	3		
Ball indentation hardness (H 358/30)	53	MPa	ISO 2039-1
Thermal			
Vicat softening point A50	151	°C	ISO 306
H.D.T. B (0.45 MPa)	77	°C	ISO 75B-1, -2

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Jampilen EP432L

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP432L" is a heterophasic polypropylene copolymer with a highly effective heat stabilization package designed for injection molded battery cases and technical items. The product offers an excellent balance of mechanical properties and processability and features an excellent long-term heat stability. Articles molded with "Jampilen EP432L" offer a good balance of stiffness and toughness, good surface properties and a very high resistance to chemicals and crazing.
"Jampilen EP432L" is largely used for automotive components. Battery cases, cooling water compensation reservoirs, brake fluid reservoirs, wash water reservoirs, dashboard supports, luggage compartment trims and door trim panels are typical applications.

Processing Method:

Injection molding

Features:

Medium flow
High impact strength
Excellent long-term heat stability
Good heat aging
Heterophasic copolymer

Typical Applications:

Battery cases, cooling water compensation reservoirs
Brake fluid reservoirs, wash water reservoirs, dashboard
Supports, luggage compartment trims and door trim panels
Appliances, cables and wires

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	6.0	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1200	MPa	ASTM D790
Tensile Strength at Yield	26	MPa	ASTM D638
Tensile Elongation at Yield	9	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	170	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	70	J/m	ASTM D256
Shore hardness (Shore D)	68	----	ISO 868
Thermal			
Vicat softening point (10N)	152	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	95	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	1800	hours	ASTM D3012

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Jampilen EP440L

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP440L" is a medium flow heterophasic polypropylene copolymer with improved balance of mechanical properties. The product features high stiffness and outstanding impact strength at low temperatures and is specifically designed for injection molding applications. In comparison with conventional copolymers with the same MFR and same rigidity, "Jampilen EP440L", exhibits 35 % higher toughness.
"Jampilen EP440L" is suitable for a wide range of applications in the packaging, automotive and consumer goods industries. Typical applications include luggage, paint pails, buckets, containers, crates, batteries and large toys.

Processing Method:

Injection molding

Features:

High impact strength
High stiffness
Heterophasic copolymer

Typical Applications:

Packaging, automotive and consumer goods industries
Luggage, paint pails, buckets
Containers, crates, batteries and large toys

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	6.0	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1300	MPa	ASTM D790
Tensile Strength at Yield	25	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	200	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	60	J/m	ASTM D256
Thermal			
Vicat softening point (10N)	150	^{o}C	ASTM D1525
H.D.T. (0.46 MPa)	90	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hours	ASTM D3012

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Jampilen EP332L

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP332L" is a heterophasic polypropylene copolymer with a highly effective heat stabilization package designed for injection molded battery cases and technical items. The product offers an excellent balance of mechanical properties and processability and features an excellent long-term heat stability. Articles molded with "Jampilen EP332L" offer a good balance of stiffness and toughness, good surface properties and a very high resistance to chemicals and crazing.
"Jampilen EP332L" is largely used for automotive components. Battery cases, cooling water compensation reservoirs, brake fluid reservoirs, wash water reservoirs, dashboard supports, luggage compartment trims and door trim panels are typical applications.
In the electro-technical industries, "Jampilen EP332L" is used for appliances, cables and wires (e.g. as slotted core element in fibre optic cables).
"Jampilen EP332L" is suitable for food contact.

Processing Method:

Injection molding

Features:

Medium flow
Excellent balance of stiffness/impact strength
Excellent long-term heat stability
Good heat aging
Low warpage
Heterophasic copolymer

Typical Applications:

Battery cases, cooling water compensation reservoirs
Brake fluid reservoirs, wash water reservoirs, dashboard
Supports, luggage compartment trims and door trim panels
Appliances, cables and wires

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	7.0	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1200	MPa	ASTM D790
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	9	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	100	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	40	J/m	ASTM D256
Rockwell Hardness	93	R-Scale	ASTM D785
Thermal			
Vicat softening point (10N)	150	°C	ASTM D1525
H.D.T. (0.46 Mpa)	88	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	1800	hours	ASTM D3012

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JAM Polypropylene

Jampilen EP300M

Heterophasic copolymer

Description:

"Jampilen EP300M" is a heterophasic copolymer for injection molding applications that offers excellent balance of stiffness, impact strength and processability. Typical applications for "Jampilen EP300M" are thin walled packaging, housewares and automotive parts.
"Jampilen EP300M" is suitable for food contact.

Processing Method:

Injection molding
Film Extrusion

Features:

High impact resistance
Good stiffness
Good processability
Heterophasic copolymer

Typical Applications:

Houasewares, toys, small containers
Automotive parts
Thin walled packaging
Pails, crates, caps, closures, lids
Wheels, garden furniture, chair shells and stadium seats
Cast film for staionery

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	7.0	g/10min	ISO 1133
Density	0.9	g/cm^3	ISO 1183
Mechanical			
Flexural Modulus	1150	MPa	ISO 178
Tensile Strength at Yield	26	MPa	ISO 527-1, -2
Izod impact strength (Notched)			ISO 180
23°C	8	kJ/m^2	
-20°C	6	kJ/m^2	
Rockwell Hardness	93	R-scale	ASTM D785
Hardness (Shore D)	68	----	ISO 868
Thermal			
Vicat softening point /A50	151	°C	ISO 306
Accelerated oven ageing in air at 150 °C	360	hour	ISO 4577

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JAM Polypropylene

Jampilen EP340M

Heterophasic copolymer

Description:

"Jampilen EP340M" is a nucleated heterophasic copolymer, suitable for injection molding applications. It exhibits excellent impact performance with good stiffness and processability.
"Jampilen EP340M" is designed for applications where very high impact resistance is a critical requirement. Typical applications are housewares, luggage, transport and cold storage crates and consumer components subjected to low temperatures and impact. The resin is also ideal as a base material in technical compounding.

Processing Method:

Injection molding

Features:

High impact resistance
Good stiffness
Nucleated
Good processability
Heterophasic copolymer

Typical Applications:

Housewares
Crates
Luggage
Sports, leisure and toys
Compounding

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	7.5	g/10min	ISO 1133
Density	0.905	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus	1150	MPa	ISO 527-1, -2
Tensile Strength at Yield	21	MPa	ISO 527-1, -2
Tensile Elongation at Yield	6	%	ISO 527-1, -2
Tensile Elongation at Break	50	%	ISO 527-1, -2
Charpy impact strength (Notch A)			ISO 179
23°C	45	kJ/m^2	
0°C	9	kJ/m^2	
-20°C	7	kJ/m^2	
Ball indentation hardness (H 358/30)	46	MPa	ISO 2039-1
Thermal			
Vicat softening point A50	144	°C	ISO 306
H.D.T. B (0.45 MPa)	80	°C	ISO 75B-1, -2

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JAM Polypropylene

Jampilen EP200M

Heterophasic copolymer

Description:

"Jampilen EP200M" is a heterophasic copolymer, suitable for injection molding applications. The product exhibits very high impact even at low temperatures combined with medium rigidity.
"Jampilen EP200M" is typically used in toys, household appliances and technical articles.

Processing Method:

Injection molding

Features:

Very high impact resistance
Medium rigidity
Heterophasic copolymer

Typical Applications:

Toys
Household appliances
Technical articles

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	8.0	g/10min	ISO 1133
Density	0.9	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus	900	MPa	ISO 527-1, -2
Tensile Strength at Yield	19	MPa	ISO 527-1, -2
Tensile Elongation at Yield	6	%	ISO 527-1, -2
Tensile Elongation at Break	50	%	ISO 527-1, -2
Charpy impact strength (Notch A)		kJ/m^2	ISO 179
23°C	58		
0°C	12		
-20°C	9		
Ball indentation hardness (H 358/30)	40	MPa	ISO 2039-1
Thermal			
Vicat softening point A50	138	°C	ISO 306
H.D.T. B (0.45 MPa)	72	°C	ISO 75B-1, -2
Optical			
Gloss (60°)	65	----	DIN 67530

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Jampilen SP179

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen SP179", an injection molding heterophasic copolymer polypropylene grade, features high impact strength even at low temperatures, high melt flow rate and medium rigidity.
This grade is suitable for use with masterbatches.

Processing Method:

Injection molding

Features:

High impact strength
High melt flow rate
Medium rigidity
Heterophasic copolymer

Typical Applications:

Battery cases

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	8	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	950	MPa	ASTM D790
Tensile Strength at Yield	19	MPa	ASTM D638
Tensile Elongation, ultimate	6	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	N.B	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	110	J/m	ASTM D256
Shore hardness (Shore D)	60	----	ISO 868
Thermal			
Vicat softening point (10N)	135	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	75	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hour	ASTM D3012

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Jampilen EPX-3130UV

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EPX-3130UV" is a non-filled polypropylene copolymer for injection molding with very high impact strength. The product has good U.V. resistance designed for outdoor applications. This grade is used for production of automotive parts, such as bumpers, and compounding.

Processing Method:

Injection molding
Compounding

Features:

Very high impact strength especially at low temperatures
Good U.V. resistance
Good processability
Heterophasic copolymer

Typical Applications:

Automotive parts
Outdoor applications
Technical articles

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	10	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	900	MPa	ASTM D790
Tensile Strength at Yield	19	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	500	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	100	J/m	ASTM D256
Thermal			
Vicat softening point (10N)	135	°C	ASTM D1525
H.D.T. (0.46 MPa)	75	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	hours	ASTM D3012

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Jampilen EP540N

Heterophasic copolymer

JAM Polypropylene

Description:

″Jampilen EP540N″ is a nucleated heterophasic polypropylene copolymer with an improved mechanical properties balance. The product features outstanding stiffness and high impact strength at low temperatures and is designed for injection molding applications.
In comparison with conventional copolymers with the same MFR and the same toughness, ″Jampilen EP540N″ exhibits 20% higher rigidity. ″Jampilen EP540N″ is suitable for a wide range of applications in the packaging, automotive and consumer goods industries. Typical applications include housewares, containers, bins, baskets, flowerpots, toys, lids, caps and closures. The grade is also well suited for molded garden furniture, chair shells, crates, trays and automotive parts.
″Jampilen EP540N″ is suitable for food contact.

Processing Method:

Injection molding

Features:

High impact strength
High stiffness
Heterophasic copolymer

Typical Applications:

Packaging and consumer goods
Housewares, containers, bins, baskets, flowerpots
Toys, lids, caps and closures
Garden furniture, chair shells, crates, trays
Automotive parts

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	12	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1500	MPa	ASTM D790
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	8	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	100	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	55	J/m	ASTM D256
Hardness (Rockwll)	98	R-Scale	ASTM D785
Thermal			
Vicat softening point (10N)	149	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	110	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hour	ASTM D3012

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Jampilen EP440N

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP440N" is an easy flow heterophasic polypropylene copolymer with improved mechanical properties balance. The product features high stiffness and outstanding impact strength even at low temperatures. "Jampilen EP440N" is specifically designed for injection molding applications. In comparison with conventional copolymers with the same MFR and the same rigidity, "Jampilen EP440N", exhibits 20 % higher toughness.
"Jampilen EP440N" is suitable for a wide range of applications in the packaging, automotive and consumer goods industries. Typical applications include luggage, paint pails, buckets, containers, crates, batteries and large toys.

Processing Method:

Injection molding

Features:

High impact strength and stiffness
Excellent processability
Heterophasic copolymer

Typical Applications:

Packaging, automotive and consumer goods industries
Luggage, paint pails, buckets, containers
Crates, batteries and large toys

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	12	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1350	MPa	ASTM D790
Tensile Strength at Yield	25	MPa	ASTM D638
Tensile Elongation at Yield	10	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	120	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	55	J/m	ASTM D256
Hardness (Shore D)	66	----	ISO 868
Thermal			
Vicat softening point (10N)	150	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	95	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hour	ASTM D3012

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Jampilen EP548N

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP548N" is a heterophasic polypropylene copolymer with improved mechanical properties balance. The product features an outstanding stiffness, high impact strength, excellent antistatic properties and is designed for injection molding applications. In comparison with conventional copolymers with the same MFR and the same toughness, "Jampilen EP548N" exhibits 20 % higher rigidity.
"Jampilen EP548N" is suitable for a wide range of applications in the packaging, automotive and consumer goods industries. Typical applications include housewares, containers, bins, baskets, flowerpots, toys, lids, caps and closures. This grade is also well suited for molded garden furniture, chair shells, crates, trays and automotive parts.
"Jampilen EP548N" is suitable for food contact.

Processing Method:

Injection molding

Features:

High impact strength and stiffness
Excellent antistatic properties
Heterophasic copolymer

Typical Applications:

Packaging and consumer goods
Housewares, containers, bins, baskets, flowerpots
Toys, lids, caps and closures
Garden furniture, chair shells, crates, trays
Automotive parts

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	12	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1500	MPa	ASTM D790
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	8	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	100	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	55	J/m	ASTM D256
Rockwell Hardness	98	R-Scale	ASTM D785
Thermal			
Vicat softening point (10N)	149	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	110	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hours	ASTM D3012

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Jampilen BA238G3

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen BA238G3" is a non-filled polypropylene copolymer for injection molding with very high impact strength. The product has good U.V. resistance designed for outdoor applications. This grade is specially used for bumpers.

Processing Method:

Injection molding

Features:

Very high impact strength
Good U.V. resistance
Heterophasic copolymer

Typical Applications:

Automotive bumpers
Outdoor applications

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	12	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1000	MPa	ASTM D790
Tensile Strength at Yield	20	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	500	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	100	J/m	ASTM D256
Thermal			
Accelerated oven ageing in air at 150 ^{o}C	360	hour	ASTM D3012

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Jampilen EP300N

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP300N" is a heterophasic copolymer for injection molding applications. The product offers excellent balance of stiffness, impact strength and processability. Typical applications of "Jampilen EP300N" are packaging, housewares and automotive parts.
"Jampilen EP300N" is suitable for food contact.

Processing Method:

Injection molding

Features:

Good impact resistance
Good stiffness
Good processability
Heterophasic copolymer

Typical Applications:

Crates
Housewares
Industrial components
Automotive parts

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	15	g/10min	ISO 1133
Density	0.9	g/cm^3	ISO 1183
Mechanical			
Flexural Modulus	1100	MPa	ISO 178
Tensile Strength at Yield	24	MPa	ISO 527-1, -2
Tensile Elongation at Yield	6.5	%	ISO 527-1, -2
Thermal			
Vicat softening point A50	146	°C	ISO 306
H.D.T. B (0.45 MPa)	75	°C	ISO 75B-1, -2
Accelerated oven ageing in air at 150 °C	360	hour	ISO 4577

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Jampilen EP540P

Heterophasic copolymer

JAM Polypropylene

Description:

″Jampilen EP540P″ is a nucleated heterophasic copolymer, suitable for injection molding applications. It exhibits high stiffness combined with good impact balance.
″Jampilen EP540P″ is typically used in luggage, houseware items, containers, caps and closures.
″Jampilen EP540P″ is suitable for food contact.

Processing Method:

Injection molding

Features:

Good impact resistance
Good stiffness
Nucleated
Heterophasic copolymer

Typical Applications:

Caps and closures
Housewares
Luggage
Opaque containers

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	15	g/10min	ISO 1133
Density	0.905	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus	1400	MPa	ISO 527-1, -2
Tensile Strength at Yield	28	MPa	ISO 527-1, -2
Tensile Elongation at Yield	6	%	ISO 527-1, -2
Tensile Elongation at Break	>50	%	ISO 527-1, -2
Charpy impact strength (Notch A)		kJ/m^2	ISO 179
23°C	7.0		
0°C	3.5		
-20°C	3.0		
Ball indentation hardness (H 358/30)	63	MPa	ISO 2039-1
Thermal			
Vicat softening point A50	151	°C	ISO 306
H.D.T. B (0.45 MPa)	90	°C	ISO 75B-1, -2

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Jampilen EP548P

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP548P" is a nucleated, antistatic formulated, heterophasic copolymer, suitable for injection molding applications. It exhibits high stiffness combined with medium fluidity. "Jampilen EP548P" is extensively used in housewares, furnitures, cylindrical containers and crates.

Processing Method:

Injection molding

Features:

Medium flow
Good stiffness
Nucleated
Antistatic properties
Heterophasic copolymer

Typical Applications:

Crates
Furnitures
Housewares
Opaque containers

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	16	g/10min	ISO 1133
Density	0.905	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus	1550	MPa	ISO 527-1, -2
Tensile Strength at Yield	28	MPa	ISO 527-1, -2
Tensile Elongation at Break	>50	%	ISO 527-1, -2
Tensile Elongation at Yield	5	%	ISO 527-1, -2
Charpy impact strength (Notch A)			ISO 179
23°C	8.0	kJ/m^2	
0°C	4.0	kJ/m^2	
-20°C	3.0	kJ/m^2	
Ball indentation hardness (H 358/30)	69	MPa	ISO 2039-1
Thermal			
Vicat softening point /A50	147	°C	ISO 306
H.D.T. B (0.45 MPa)	100	°C	ISO 75B-1, -2

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Jampilen EP440R

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP440R" is a nucleated heterophasic copolymer, suitable for injection molding applications. It exhibits excellent stiffness/impact balance combined with a medium high fluidity.
"Jampilen EP440R" is applied in toys, furniture and thin-walled injection molded items.
"Jampilen EP440R" is suitable for food contact.

Processing Method:

Injection molding

Features:

Good flow
Controlled rheology
Good impact resistance
Good stiffness
Nucleated
Heterophasic copolymer

Typical Applications:

Crates
Housewares and furnitures
Sports, leisure and toys
TWIM food containers

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	20	g/10min	ISO 1133
Density	0.905	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus	1150	MPa	ISO 527-1, -2
Tensile Strength at Yield	27	MPa	ISO 527-1, -2
Tensile Elongation at Yield	5	%	ISO 527-1, -2
Tensile Elongation at Break	>50	%	ISO 527-1, -2
Charpy impact strength (Notch A)			ISO 179
23°C	8	kJ/m^2	
0°C	5	kJ/m^2	
-20°C	4	kJ/m^2	

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JAM Polypropylene

Jampilen EP548R

Heterophasic copolymer

Description:

"Jampilen EP548R" is a nucleated, antistatic formulated, high fluidity heterophasic copolymer used for thin-walled injection molding. Items made with "Jampilen EP548R" exhibit high stiffness, relatively good impact resistance and excellent antistatic properties. Due to its excellent moldability and short cycle times, "Jampilen EP548R" allows high productivity rates. The finished items show good mechanical properties, and high dimensional stability.
"Jampilen EP548R" is very well suited for the production of thin-wall articles or articles with long flow paths such as flower pots, containers, housewares, filters, filter housings and appliance components.
"Jampilen EP548R" is suitable for food contact.

Processing Method:

Injection molding

Features:

Good impact strength
High stiffness
Excellent antistatic properties
Excellent moldability and short cycle times
Heterophasic copolymer

Typical Applications:

Thin-wall articles
Articles with long flow paths such as flower pots, containers, housewares, filters, filter housings and appliance components
Sports, Leisure and toys

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	21	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1500	MPa	ASTM D790
Tensile Strength at Yield	26	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	90	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	40	J/m	ASTM D256
Thermal			
Vicat softening point (10N)	150	°C	ASTM D1525
H.D.T. (0.46 MPa)	110	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	hours	ASTM D3012

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Jampilen EP448S

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP448S" is a high melt flow rate, heterophasic copolymer for thin- walled injection molding. Items made with this grade exhibit high stiffness, good impact resistance and excellent antistatic properties. The use of "Jampilen EP448S" allows high productivity because of the easy muld filling and short cycle times. The excellent balance of mechanical properties combined with the outstanding organoleptic properties and antistatic characteristics make this grade particularly suitable for thin-walled packaging.
"Jampilen EP448S" is suitable for food contact.

Processing Method:

Injection molding

Features:

High melt flow rate
Good impact strength
High stiffness
Excellent antistatic properties
Excellent organoleptic properties
Heterophasic copolymer

Typical Applications:

Thin-walled packaging
Margarine tubs and pots for soft cheeses, pudding, mayonnaise and other dairy or fatty products
Caps, closures and flower pots
CD and DVD boxes, appliance components, small pails, cool boxes and food containers

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	40	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1300	MPa	ASTM D790
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	65	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	30	J/m	ASTM D256
Rockwell Hardness	95	R-Scale	ASTM D785
Thermal			
Vicat softening point (10 N)	150	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	108	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hour	ASTM D3012

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JAM Polypropylene

Jampilen EP340S

Heterophasic copolymer

Description:

"Jampilen EP340S" is a high fluidity, nucleated heterophasic copolymer, particularly suitable for injection molding items that require superior mechanical properties balance over a wide temperature range. The easy flow of "Jampilen EP340S" provides outstanding processability and reduced cycle times.
Items molded with "Jampilen EP340S" feature excellent impact strength and good stiffness. The mechanical properties at low temperature and dimensional stability are excellent. "Jampilen EP340S" has been designed for large items with significant impact requirements such as boxes, crates, pails and large household articles. Other applications include thin-walled containers, toys, appliance components, battery cases and some smaller items such as caps, closures and flower pots.
"Jampilen EP340S" is suitable for food contact.

Processing Method:

Injection molding

Features:

Excellent impact strength
Good stiffness
Good processability and reduced cycle times
Excellent dimensional stability
Heterophasic copolymer

Typical Applications:

Boxes, crates, pails and large household articles
Toys, appliance components, battery cases
Caps, closures and flower pots
Thin-walled containers

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	42	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1250	MPa	ASTM D790
Tensile Strength at Yield	25	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	75	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	45	J/m	ASTM D256
Hardness (Rockwell)	86	R-Scale	ASTM D785
Thermal			
Vicat softening point (10N)	148	°C	ASTM D1525
H.D.T. (0.46 Mpa)	100	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	hour	ASTM D3012
Optical			
Gloss (60°)	70	----	ASTM D2457

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JAM Polypropylene

Jampilen EP548S

Heterophasic copolymer

Description:

"Jampilen EP548S" is a high melt flow rate, nucleated heterophasic copolymer with antistatic agent used for thin-walled injection molding applications. The product features improved balance of mechanical properties. The use of "Jampilen EP548S" allows high productivity due to the easy mold filling and short cycle times.
In comparison with conventional copolymers with the same MFR and the same toughness, "Jampilen EP548S" exhibits 15% higer rigidity.
"Jampilen EP548S" is suitable for food contact.

Processing Method:

Injection molding

Features:

Good impact strength
High stiffness
Easy mold filling and short cycle times
Excellent dimensional stability
Excellent organoleptic properties
Heterophasic copolymer

Typical Applications:

Thin-walled packaging
Margarine tubs, yoghurt pots, pots for soft cheese, pudding and mayonnaise
Caps and closures
Flower pots and cool boxes
Opaque food containers
Housewares
Sports, leisure and toys

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	44	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1500	MPa	ASTM D790
Tensile Strength at Yield	28	MPa	ASTM D638
Tensile Elongation at Yield	5	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	65	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	35	J/m	ASTM D256
Rockwell Hardness	100	R-Scale	ASTM D785
Thermal			
Vicat softening point (10N)	150	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	112	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hours	ASTM D3012

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JAM Polypropylene

Jampilen EP448T

Heterophasic copolymer

Description:

"Jampilen EP448T" is a heterophasic copolymer for injection molding applications containing nucleation and antistatic additivation. "Jampilen EP448T" has very good flowability and impact/stiffness balance.
The main applications of "Jampilen EP448T" are thin walled packaging, housewares and closures.

Processing Method:

Injection molding

Features:

Good flow
Good impact resistance
Good stiffness
Nucleated
Antistatic properties
Heterophasic copolymer

Typical Applications:

Injection Molded caps and closures
Sports, Leisure and toys
Housewares
TWIM food containers

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	48	g/10min	ISO 1133
Density	0.905	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus	1350	MPa	ISO 527-1, -2
Tensile Strength at Yield	27	MPa	ISO 527-1, -2
Tensile Elongation at Yield	5	%	ISO 527-1, -2
Tensile Elongation at Break	40	%	ISO 527-1, -2
Charpy impact strength (Notch A)			ISO 179
23°C	5.0	kJ/m^2	
0°C	3.5	kJ/m^2	
-20°C	2.5	kJ/m^2	
Ball indentation hardness (H 358/30)	62	MPa	ISO 2039-1
Thermal			
Vicat softening point A50	151	°C	ISO 306
H.D.T. B (0.45 MPa)	90	°C	ISO 75B-1, -2

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Jampilen EPX-548T

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EPX-548T" is a high melt flow rate, nucleated heterophasic copolymer with a special antistatic additivation used for thin-wall injection molding, IML and houseware applications. The product features improved balance of mechanical properties. The use of "Jampilen EPX-548T" allows high productivity due to the easy mold filling and short cycle times.
In comparison with conventional copolymers with the same MFR and the same toughness, "Jampilen EPX-548T" exhibits 15% higher rigidity.
"Jampilen EPX-548T" is suitable for food contact.

Processing Method:

Injection molding

Features:

High fluidity
Easy mold filling and short cycle times
Desirable impact/ stiffness balance
Good dimensional stability
Unspecified antistatic properties
Heterophasic copolymer

Typical Applications:

TWIM/IML food containers (Margarine tubs, yoghurt pots, pots for soft cheese, pudding, etc.)
Housewares
Caps and closures
Flower pots and cool boxes
Sports, leisure and toys

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	50	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1450	MPa	ASTM D790
Tensile Strength at Yield	26	MPa	ASTM D638
Tensile Elongation at Yield	5	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	65	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	40	J/m	ASTM D256
Thermal			
Vicat softening point (10N)	155	^{o}C	ASTM D1525
H.D.T. (0.46 MPa)	105	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hours	ASTM D3012

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Jampilen EP348U

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP348U" is a nucleated, antistatic formulated, very high melt flow rate heterophasic polypropylene copolymer. The product features excellent impact resistance, even at low temperatures. "Jampilen EP348U" is specifically designed for high speed thin-walled injection molding.
The very high fluidity, the molecular design and specific formulation of "Jampilen EP348U" result in very easy processing, short cycle times, low shrinkage and minimal warpage. This allows a great design freedom and imparts good dimensional stability of the molded items. Items made with this grade feature excellent mechanical properties over a wide temperature range and very good low temperature performance. The ductile brittle transition temperature is well below -40°C. To obtain the best results in injection molding, "Jampilen EP348U" processing temperature should not exceed 240-250°C.

Processing Method:

Injection molding

Features:

Excellent impact resistance
Very high fluidity
Good dimensional stability
Very good low temperature performance
Heterophasic copolymer

Typical Applications:

Thin-walled packaging
Margarine tubs, pots for dairy products, ice-cream containers, trays, CD and DVD envelopes
Lids, caps and closures
Housewares, lunch-boxes, cool boxes
Small buckets, laundry baskets, toy boxes and flower pots

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	70	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1200	MPa	ASTM D790
Tensile Strength at Yield	24	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	70	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	35	J/m	ASTM D256
Rockwell Hardness	86	R-Scale	ASTM D785
Thermal			
Vicat softening point (10N)	148	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	100	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hours	ASTM D3012
Optical			
Gloss (60^{o})	65	----	ASTM D2457

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JAM Polypropylene

Jampilen EP648V

Heterophasic copolymer

Description:

"Jampilen EP648V" is a nucleated, antistatic formulated, ultra high fluidity heterophasic copolymer designed for thin-walled injection molding applications. The product offers good stiffness/impact balance, good dimensional stability and outstanding antistatic properties. "Jampilen EP648V" offers the typical advantages of PP such as low odour transfer, no monomer migration, excellent stress cracking resistance and high chemical resistance, as well.
The ultra high MFR and the specific formulation of "Jampilen EP648V" result in very easy mold filling, short cycle times, low shrinkage and low warpage. The finished items show excellent dimensional stability, good surface finish and high antistatic properties.
"Jampilen EP648V" is mainly used for packaging, housewares and garden furniture. The most typical applications are items with long flow paths such as laundry bins, drawer trays, toy boxes, small containers, CD and DVD boxes, margarine tubs and packaging for dairy products.
"Jampilen EP648V" is suitable for food contact.

Processing Method:

Injection molding

Features:

Ultra high fluidity
Good stiffness/impact balance
Good dimensional stability
Good antistatic properties
Heterophasic copolymer

Typical Applications:

Thin-walled packaging
Packaging, housewares and garden furniture
Laundry bins, drawer trays, toy boxes, small containers, CD and DVD boxes, margarine tubs
Opaque containers for dairy products

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	100	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1550	MPa	ASTM D790
Tensile Strength at Yield	31	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	35	J/m	ASTM D256
Rockwell Hardness	105	R-Scale	ASTM D785
Thermal			
Vicat softening point (10N)	150	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	115	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hours	ASTM D3012
Optical			
Gloss (60^{o})	75	-----	ASTM D2457

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Jampilen H1022

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen H1022" is a natural polypropylene block copolymer with high melt viscosity and excellent low-temperature impact strength. It contains basic stabilization additives.

Processing Method:

Extrusion (Sheet, Profile)

Features:

High melt viscosity
Excellent low-temperature impact strength
Heterophasic copolymer

Typical Applications:

Rigid profiles and sheet

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	0.3	g/10min	ISO 1133
Density	0.901	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus (1 mm/min)	1100	MPa	ISO 527-1, -2
Tensile Strength at Yield (50 mm/min)	25	MPa	ISO 527-1, -2
Tensile Elongation at Yield (50 mm/min)	10	%	ISO 527-1, -2
Tensile Creep Modulus 1h	1020	MPa	ISO 899-1
Tensile Creep Modulus 1000h	500	MPa	ISO 899-1
Charpy impact strength (notched)			ISO 179
23°C	35	kJ/m^2	
0°C	7	kJ/m^2	
-30°C	3	kJ/m^2	
Hardness (Shore D)	66	-----	ISO 868
Thermal			
Vicat softening point A50	149	°C	ISO 306
H.D.T. B (0.45 MPa)	75	°C	ISO 75B-1, -2
Melting Temperature	165	°C	ISO 3146

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Jampilen H2464

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen H2464" is a natural polypropylene copolymer with exceptional balance of mechanical properties. The product has been specifically designed for extrusion of structured wall pipes for underground drainage and sewage applications but can also be used for other extrusion applications. The product provides high stiffness, excellent impact resistance at room temperature and in particular at sub-zero temperatures with high heat- and extraction stability.

Processing Method:

Extrusion (pipe, sheet, profile)

Features:

High melt viscosity
Excellent impact resistance
High stiffness
high heat and extraction stability
Heterophasic copolymer

Typical Applications:

Underground drainage and sewage pipes
Sheet and profiles

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	0.3	g/10min	ISO 1133
Density	0.9	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus (1 mm/min)	1350	MPa	ISO 527-1, -2
Tensile Strength at Yield (50 mm/min)	29	MPa	ISO 527-1, -2
Tensile Elongation at Yield (50 mm/min)	10	%	ISO 527-1, -2
Tensile Elongation at Break (50 mm/min)	400	%	ISO 527-1, -2
Flexural Modulus (2 mm/min)	1450	MPa	ISO 178
Izod impact strength (Notched)			ISO 180
23°C	66	kJ/m^2	
0°C	35	kJ/m^2	
-20°C	17	kJ/m^2	
-30°C	9	kJ/m^2	
Thermal			
Oxidation induction time (OIT) (200°C)	> 30	min	EN 728
Oxidation induction time (OIT) (210°C)	> 15	min	EN 728

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Jampilen EPD60R

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EPD60R" is a high molecular weight heterophasic copolymer for blow molding and extrusion and is designed to produce items with superior toughness, even at low temperatures. "Jampilen EPD60R" exhibits excellent heat and detergent resistance. Due to its excellent impact strength and its particular formulation, "Jampilen EPD60R" is well suited for extrusion blow molding of appliance components, wheels, under-the-hood automotive parts, toolboxes, suitcases and large containers. Extrusion applications of "Jampilen EPD60R" include profiles, pipes and tough sheet for industrial applications. Sheet produced with "Jampilen EPD60R" is also well suited for thermoforming trays for cold storage.
"Jampilen EPD60R" can be compression molded into thick sheet. "Jampilen EPD60R" is suitable for food contact but not intended for medical and pharmaceutical applications.

Processing Method:

Extrusion (pipe, sheet)
Thermoforming
Compression molding
Blow molding

Features:

High molecular weight
Excellent heat and detergent resistance
Excellent toughness
Heterophasic copolymer

Typical Applications:

Appliance components
Under-the-hood automotive parts
Toolboxes, suitcases, wheels and large containers
Profiles and tough sheet for industrial applications
Industrial, soil and waste pipe
Thermoformed trays for cold storage cartons
Thick sheet

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	0.4	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1100	MPa	ASTM D790
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	15	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	750	J/m	ASTM D256
Izod Impact Strength (notched) at 0 °C	350	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	80	J/m	ASTM D256
Rockwell Hardness	77	R-Scale	ASTM D785
Thermal			
Vicat softening point (10N)	150	°C	ASTM D1525
H.D.T. (0.46 Mpa)	85	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	1800	hours	ASTM D3012

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Jampilen EP300D

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP300D" is a high molecular weight, heterophasic polypropylene copolymer designed for extrusion applications which require a balance of high stiffness and very good impact strength. "Jampilen EP300D" offers excellent processability in extrusion. The final items show very good mechanical properties, even at temperatures down to -20°C.
Major Applications of "Jampilen EP300D" are profiles, pipes, ducts for electrical distribution and automotive parts. This grade is also used for extrusion blow molding pigmented, glossy monolayer bottles for toiletries, detergents and foodstuffs. "Jampilen EP300D" is also well suited for corrugated board and sheet for thermoforming.
"Jampilen EP300D" is suitable for food contact.

Processing Method:

Extrusion
Blow molding

Features:

High molecular weight
High stiffness
Very good impact strength
Excellent processability
Heterophasic copolymer

Typical Applications:

Profiles, pipes
Ducts for electrical distribution and automotive parts
Glossy monolayer bottles for toiletries, detergents and foodstuffs
Corrugated board and sheet for thermoforming

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	0.8	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1250	MPa	ASTM D790
Tensile Strength at Yield	30	MPa	ASTM D638
Tensile Elongation at Yield	13	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	600	J/m	ASTM D256
Izod Impact Strength (notched) at 0 °C	130	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	50	J/m	ASTM D256
Rockwell Hardness	90	R-Scale	ASTM D785
Thermal			
Vicat softening point (10 N)	152	°C	ASTM D1525
H.D.T. (0.46 Mpa)	90	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	hour	ASTM D3012

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JAM Polypropylene

Jampilen EP310D

Heterophasic copolymer

Description:

"Jampilen EP310D" is a high molecular weight, heterophasic polypropylene copolymer designed for extrusion applications where smooth processability and high mechanical properties are of the utmost importance.
The processability of "Jampilen EP310D" in extrusion is excellent. The final items show good stiffness and very high impact strength, even at -20°C. "Jampilen EP310D" is particularly suitable for the extrusion of films for adhesive tapes and films for lamination to paper and other resins. Extrusion blow molded containers for detergents, toiletries and foodstuffs and blow molded technical parts are among other important applications.
"Jampilen EP310D" is suitable for food contact.

Processing Method:

Extrusion blow molding
Blown film
Injection molding

Features:

High molecular weight
Good stiffness
Excellent processability
Very high impact strength
Heterophasic copolymer

Typical Applications:

Film for adhesive tapes
Film for lamination to paper and other resins
Extrusion blow molded containers for detergents, toiletries and foodstuff
Blow molded technical parts
Corrugated board, smooth and corrugated pipe

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	0.8	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1150	MPa	ASTM D790
Tensile Strength at Yield (MD)	27	MPa	ASTM D638
Tensile Elongation at Yield	15	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	650	J/m	ASTM D256
Izod Impact Strength (notched) at 0 °C	200	J/m	ASTM D256
Izod Impact Strength (notched) at -20 °C	70	J/m	ASTM D256
Rockwell Hardness	80	R-Scale	ASTM D785
Thermal			
Vicat softening point (10N)	150	°C	ASTM D1525
H.D.T. (0.46 Mpa)	85	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	hour	ASTM D3012
Optical			
Haze (60 µm)	60	%	ASTM D1003
Gloss (60 µm)	12	----	ASTM D2457

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JAM Polypropylene

Jampilen EP400G

Heterophasic copolymer

Description:

″Jampilen EP400G″ is a heterophasic polypropylene copolymer designed for extrusion applications where smooth processability and a good balance of mechanical properties are required. ″Jampilen EP400G″ offers excellent processability and the final items show good stiffness and outstanding impact resistance, even at temperatures down to -20°C.
The major applications of ″Jampilen EP400G″ are the production of corrugated board and the extrusion of sheet for thermoforming. Other applications include blow molded bottles and containers for detergents and foodstuffs as well as technical parts for the automotive and appliance industries. ″Jampilen EP400G″ is suitable for food contact.

Processing Method:

Extrusion
Blow molding

Features:

Good stiffness
Excellent processability
Very high impact strength
Heterophasic copolymer

Typical Applications:

Corrugated board
Sheet for thermoforming
Blow molded bottles and containers for detergents and foodstuffs
Technical parts for the automotive and appliance industries

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	1.3	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1150	MPa	ASTM D790
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	13	%	ASTM D638
Izod Impact Strength (notched) at 23^{o}C	650	J/m	ASTM D256
Izod Impact Strength (notched) at 0^{o}C	130	J/m	ASTM D256
Izod Impact Strength (notched) at -20^{o}C	60	J/m	ASTM D256
Rockwell Hardness	82	R Scale	ASTM D785
Thermal			
Vicat softening point (10 N)	150	^{o}C	ASTM D1525
H.D.T. (0.46 Mpa)	85	^{o}C	ASTM D648
Accelerated oven ageing in air at 150 ^{o}C	360	hour	ASTM D3012

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Jampilen EP440G

Heterophasic copolymer

JAM Polypropylene

Description:

"Jampilen EP440G" is a nucleated heterophasic copolymer especially developed for extrusion applications.
In comparison with standard polypropylene copolymers with the same fluidity, "Jampilen EP440G" exhibits higher stiffness, superior impact properties at room and sub-zero temperatures, very high dimensional stability and excellent creep and deforming resistance. The main applications of "Jampilen EP440G" are thermoforming, corrugated board and extrusion blow molding.

Processing Method:

Thermoforming
Extrusion blow molding
Injection molding

Features:

Very high impact resistance
High stiffness
Very high dimensional stability
Excellent creep and deforming resistance
Heterophasic copolymer

Typical Applications:

Corrugated board, panels, profiles and crates
Corrugated pipes for automotive and machine construction
Conduit pipes and fittings for electrical distribution and cable protection
Blow molded bottles and containers
Pipe fittings

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 ^{o}C, 2.16kg)	1.3	g/10min	ASTM D1238
Density	0.9	g/cm^3	ASTM D1505
Mechanical			
Flexural Modulus	1300	MPa	ASTM D790
Tensile Strength at Yield	25	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Izod Impact Strength (notched) at 23 ^{o}C	500	J/m	ASTM D256
Izod Impact Strength (notched) at -20 ^{o}C	70	J/m	ASTM D256
Thermal			
Vicat softening point (10N)	150	oC	ASTM D1525
H.D.T. (0.46 MPa)	92	oC	ASTM D648
Accelerated oven ageing in air at 150 oC	360	hours	ASTM D3012

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JAM Polypropylene

Jampilen EP548U

Heterophasic copolymer

Description:

"Jampilen EP548U" is a nucleated heterophasic copolymer, suitable for injection molding applications, and contains an antistatic agent. It exhibits outstanding balance of mechanical properties combined with high fluidity.
"Jampilen EP548U" is extensively used in housewares and in thin-walled containers for food packaging (e.g. margarine tubs, yoghurt pots, etc.).

Processing Method:

Injection molding

Features:

High flow
Nucleated
Antistatic properties
Heterophasic copolymer

Typical Applications:

Containers
Sports, leisure and toys
TWIM food containers
Housewares

Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	70	g/10min	ISO 1133
Density	0.905	g/cm^3	ISO 1183
Mechanical			
Tensile Modulus	1550	MPa	ISO 527-1, -2
Tensile Strength at Yield	28	MPa	ISO 527-1, -2
Tensile Elongation at Yield	5	%	ISO 527-1, -2
Tensile Elongation at Break	30	%	ISO 527-1, -2
Charpy impact strength (Notch A)		kJ/m^2	ISO 179
23°C	5.0		
0°C	3.5		
-20°C	3.0		
Ball indentation hardness (H 358/30)	68	MPa	ISO 2039-1
Thermal			
Vicat softening point A50	151	°C	ISO 306
H.D.T. B (0.45 MPa)	95	°C	ISO 75B-1, -2

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