

PETİLEN YY S0464

High Density Polyethylene (HDPE)

Description

PETİLEN YY S0464 is a high density polyethylene resin having medium molecular weight distribution. The product is developed for medium size blow molding applications. The high flexural modulus of the material makes it possible to produce rigid goods.

Applications

Blow molding: various food bottles, medium size containers, kitchen goods
 Monofilaments, raffia, LDPE/LLDPE coex films (in middle layer of coex films to increase stiffness and mechanical properties)
 Sheet extrusion

Compliance to Regulations

The formulation and production of PETİLEN YY S0464 conforms to the compositional requirements of the Commission Regulation (EU) No. 10/2011.

Properties	Typical Values (*)	Units	Test Methods
Resin Properties			
Melt Flow Rate (190°C/2.16 kg)	0.36	g/10 min	ASTM D1238
Density, 23°C ⁽¹⁾	0.961	g/cm ³	ASTM D1505
Melting Point (DSC, 2nd heating)	134	°C	ASTM D3418
Mechanical Properties (**)			
Tensile Strength at Yield	28	MPa	ASTM D638
Tensile Strength at Break	31	MPa	ASTM D638
Elongation at Break	1115	%	ASTM D638
Flexural Modulus, 23°C	1150	MPa	TS EN ISO 178
Izod Impact Strength, 23°C (notched)	300	J/m	ASTM D256
Hardness (Shore D)	65	-	ASTM D2240
Environmental Stress Crack Resistance (10% Igepal, F50)	16	h	ASTM D1693
Thermal Properties			
Vicat Softening Point, 10 N	128	°C	ASTM D1525

(1) Measured on specimens, prepared according to ASTM D2839.

(*) These are typical properties only and are not to be construed as specifications. Customers should confirm results by their own tests.

(**) The values given are measured based on compression molded sheet.

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Recommended Processing Conditions

Blow molding applications;
Typical barrel temperature: 180 - 200°C
Typical melt temperature: 190 - 210°C

Processing conditions should be optimized for different equipment design.

Health, Safety and Food Contact Regulations

The detailed information of the PETILEN YY S0464 product is given in Material Safety Data Sheet and Food Contact Declaration of the product. Please contact your sales representatives or visit web site for the food contact application compliance (e.g. EU, FDA) and other regulatory documents.

Packing and Storage

The material is packaged in PE bags or in PP Big Bags. The product should be stored in a dry area with an ambient temperature below 50°C. It should be kept away from sunlight, sparks, heat and flame. Inappropriate storage conditions can lead to bad smell, color changes and the deterioration in physical properties. It is advised to process PE resins within 6 months after delivery.

Recycling

The product is not hazardous or toxic and it is suitable for recycling using available recycling methods.

Medical Applications Policy

The product mentioned herein is not tested for use in pharmaceutical/medical applications. It is the responsibility of the final product manufacturer to determine that PETKİM product is suitable for intended use.

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