Technical Data Sheet

PETOPLEN MH418
Polypropylene (PP)

Description

PETOPLEN MH418 is a homopolymer polypropylene resin with medium molecular weight distribution. The material is developed as a multipurpose grade for extrusion and injection molding applications.

Applications

Monofilaments for woven bags, woven sheets, carpet backing, agricultural twine
Injection molding: machine parts, households

Compliance to Regulations

The formulation and production of PETOPLEN MH418 conforms to the compositional requirements of the Commission Regulation (EU) No. 10/2011.

Properties	Typical Values (*)	Units	Test Methods
Resin Properties			
Melt Flow Rate (230°C/2.16 kg)	4.7	g/10 min	ASTM D1238
Density	0.905	g/cm³	ASTM D1505
Melting Point (DSC, 2nd heating)	163	°C	ASTM D3418
Mechanical Properties (**)			
Tensile Strength at Yield	34	MPa	ASTM D638
Flexural Modulus, 23°C	1450	MPa	TS EN ISO 178
Izod Impact Strength, 23°C (notched)	22	J/m	ASTM D256
Rockwell Hardness	94	R-scale	ASTM D785
Thermal Properties			
Heat Deflection Temperature, 0.45 MPa	83	°C	ISO 75

(*) 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

Film extrusion applications;
Typical zone temperatures: 220 - 250°C
Typical die head temperature: 250°C

Processing conditions should be optimized for different equipment design.

Health, Safety and Food Contact Regulations

The detailed information of the PETOPLEN MH418 product is given in Safety Data Sheet and Food Contact Declaration of the product. Please contact your sales representatives or 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 PP 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 PETKIM product is suitable for intended use.

Disclaimer

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