

Technical Data Sheet

PETOPLEN MH220N
Polypropylene (PP)**Description**

PETOPLEN MH220N is a homopolymer polypropylene resin with medium molecular weight distribution. The material is formulated with advanced nucleating agent and specially developed for thermoforming applications where high transparency and gloss is required. Together with its excellent optical properties, PETOPLEN MH220N combines high stiffness/impact performance with very low shrinkage in end products.

Applications

Thermoforming: thin wall packaging applications, high clarity cups, trays and boxes

Compliance to Regulations

The formulation and production of PETOPLEN MH220N 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)	2.5	g/10 min	ASTM D1238
Density	0.905	g/cm ³	ASTM D1505
Melting Point (DSC, 2nd heating)	163	°C	ASTM D3418
Mechanical Properties (**)			
Tensile Strength at Yield	40	MPa	ASTM D638
Flexural Modulus, 23°C	1750	MPa	TS EN ISO 178
Izod Impact Strength, 23°C (notched)	40	J/m	ASTM D256
Rockwell Hardness	99	R-scale	ASTM D785
Thermal Properties			
Heat Deflection Temperature, 0.45 MPa	89	°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

Sheet extrusion applications;
Typical barrel temperature: 200 - 235°C
Typical upper roll temperature: 50 - 60°C
Typical middle roll temperature: 60 - 70°C
Typical lower roll temperature: 50 - 60°C

Processing conditions should be optimized for different equipment design.

Health, Safety and Food Contact Regulations

The detailed information of the PETOPLEN MH220N product is given in 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 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 PETKİM product is suitable for intended use.

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