

Technical Data Sheet

Moplen HP640J



Polypropylene, Homopolymer

Product Description

Moplen HP640J is a nucleated homopolymer for extrusion and thermoforming applications.

Moplen HP640J exhibits a good stiffness and transparency.

The main applications of Moplen HP640J are fruit baskets, trays, transparent drinking cups and containers.

This grade is not intended for medical and pharmaceutical applications.

Application	Clear Containers; Thermoformed Food Containers
Market	Rigid Packaging
Processing Method	Sheet and Profile Extrusion; Thermoforming
Attribute	Homopolymer; Medium Stiffness; Medium Transparency; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	3.2	g/10 min	ISO 1133-1
Density	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1600	MPa	ISO 527-1, -2
Tensile Stress at Yield, (23 °C)	37	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	9	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	7	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	78	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	154	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2
Optical			
Haze, (1 mm)	30	%	ASTM D1003
Gloss, (60°)	113	%	ASTM D2457