

Technical Data Sheet

Moplen HP400R

Polypropylene, Homopolymer

Product Description

Moplen HP400R is a homopolymer polypropylene used by customers for injection moulding applications. It exhibits a high fluidity combined with a good stiffness.

Moplen HP 400R is suitable for food contact.

This grade is not intended for medical and pharmaceutical applications.

Application	Furniture; Housewares
Market	Consumer Products
Processing Method	Compounding; Injection Molding
Attribute	Medium Flow; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	25	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1350	MPa	ISO 527-1, -2
Tensile Stress at Yield	32	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	3	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	70	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