

Technical Data Sheet

Moplen HP400H



Polypropylene, Homopolymer

Product Description

Moplen HP400H is a homopolymer for extrusion and compounding applications.

Moplen HP400H exhibits easy processability and a good stiffness/impact balance at ambient temperature.

It is typically used by customers in applications such as: thermoformed tubs, containers, medium draw trays and blister packs, flowerpots and small extrusion blow moulded bottles.

Application	Caps & Closures; Housewares; Opaque Containers
Market	Rigid Packaging
Processing Method	Compounding; Extrusion Blow Molding; Sheet and Profile Extrusion; Thermoforming
Attribute	Homopolymer; Low Flow; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	2	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1450	MPa	ISO 527-1, -2
Tensile Stress at Yield	34	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	11	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	8	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature, (A/50)	150	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	80	°C	ISO 75B-1, -2