

Technical Data Sheet

Moplen EP400H



Polypropylene, Impact Copolymer

Product Description

Moplen EP 400H is an heterophasic copolymer especially developed for extrusion applications.

Moplen EP 400H exhibits high stiffness, very high impact properties at room and sub-zero temperatures, good dimensional stability and excellent creep and deforming resistance. The main applications of Moplen EP 400H are thermoforming, corrugated board and extrusion blow moulding.

This grade is not intended for medical and pharmaceutical applications.

Application	Corrugated Sheet; Crates; Panels & Profiles
Market	Consumer Products; Rigid Packaging
Processing Method	Sheet and Profile Extrusion; Thermoforming
Attribute	High Impact Resistance; Impact Copolymer; Low Temperature Impact Resistance; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	2.0	g/10 min	ISO 1133-1
Density	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1300	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Break, (23 °C)	>50	%	ISO 527-1, -2
Tensile Strain at Yield	8	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	30	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	10	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	7	kJ/m ²	ISO 179
Ductile/Brittle Transition Temperature	-55	°C	ISO 6603-2
Hardness			
Ball Indentation Hardness, (H 358/30)	48	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(A/50)	153	°C	ISO 306
(B50)	70	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	78	°C	ISO 75B-1, -2