

## 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.

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

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	2.0	g/10 min	ISO 1133-1
Density	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
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
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	30	kJ/m <sup>2</sup>	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	10	kJ/m <sup>2</sup>	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	7	kJ/m <sup>2</sup>	ISO 179
Ductile/Brittle Transition Temperature	-55	°C	ISO 6603-2
<b>Hardness</b>			
Ball Indentation Hardness, (H 358/30)	48	MPa	ISO 2039-1
<b>Thermal</b>			
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