Moplen EP 400H

Polypropylene Copolymer

LyondellBasell Industries

Message:

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.

General Information	
Features	Copolymer
	Good Creep Resistance
	Good Dimensional Stability
	High Impact Resistance
	High Stiffness
	Low Temperature Impact Resistance
Uses	Blow Molding Applications
	Corrugated Sheet
	Crates
	Profiles
	Sheet
Processing Method	Extrusion
	Extrusion Blow Molding
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.7	g/10 min	ASTM D1238, ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	1.80	cm³/10min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	48.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1400	MPa	ISO 527-2
Tensile Strength			
Yield	29.4	MPa	ASTM D638
Yield	27.0	MPa	ISO 527-2
Tensile Elongation			

Yield	9.0	%	ASTM D638
Yield	8.0	%	ISO 527-2
Break	> 50	%	ISO 527-2
Flexural Modulus	1320	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			
-20°C	7.0	kJ/m²	ISO 179/1e
0°C	10	kJ/m²	ISO 179/1e
23°C	30	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	190	kJ/m²	
0°C	No Break		
23°C	No Break		
Notched Izod Impact			ASTM D256
-20°C	78	J/m	
23°C	740	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	78.0	°C	ISO 75-2/B
Ductile / Brittle Transition Temperature	-55.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	153	°C	ISO 306/A50
--	70.0	°C	ISO 306/B50
Optical	**Nominal Value**		**Test Method**
Gloss (60°)	65		DIN 67530

Recommended distributors for this material

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