

Moplen EP440G

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP440G is a nucleated heterophasic copolymer especially developed for extrusion applications. Moplen EP440G 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 EP440G are thermoforming, corrugated board and extrusion blow moulding.

General Information			
Additive	Nucleating Agent		
Features	Good Creep Resistance		
	Good Dimensional Stability		
	Good Stiffness		
	High Impact Resistance		
	Impact Copolymer		
	Low Temperature Impact Resistance		
Uses	Corrugated Sheet		
	Crates		
	Profiles		
Forms	Pellets		
Processing Method	Extrusion Blow Molding		
	Injection Molding		
	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)	1.3	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	1450	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			ISO 179/1eA
-20°C	7.0	kJ/m ²	
0°C	9.0	kJ/m ²	
23°C	40	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	190	kJ/m ²	
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			
--	150	°C	ISO 306/A50
--	66.0	°C	ISO 306/B50
Optical	Nominal Value		Test Method
Gloss (60°)	65		DIN 67530

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