

Moplen EP500N

Polypropylene Copolymer

PolyMirae

Message:

Moplen EP500N is the polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen EP500N is a block copolymer selected by customers and used in for injection molding of containers, parts of electrical appliances, crates and pails. Moplen EP500N resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
UL YellowCard	E215205-229289		
Features	Block Copolymer		
	Food Contact Acceptable		
	High Stiffness		
	Low Temperature Impact Resistance		
	Low Warpage		
	Ultra High Toughness		
Uses	Appliance Components		
	Containers		
	Crates		
	Electrical/Electronic Applications		
	Household Goods		
	Pails		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1100	MPa	ISO 527-2/1
Tensile Strength			
Yield	26.5	MPa	ASTM D638
Yield, 23°C	24.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	6.0	%	ASTM D638

Yield, 23°C	8.0	%	ISO 527-2/50
Flexural Modulus			
--	1130	MPa	ASTM D790
--	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.0	kJ/m ²	
0°C	3.5	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	No Break		
0°C	No Break		
23°C	No Break		
Notched Izod Impact			ASTM D256
-20°C	49	J/m	
23°C	98	J/m	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	75.0	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/A50

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