

Moplen EP500M

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP500M is the polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen EP500M is a block copolymer particularly suitable for injection molding of parts of electrical appliances, containers, battery case. Moplen EP500M resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
UL YellowCard	E215205-465052		
Features	Block Copolymer		
	Low warpage		
	Rigidity, high		
	Impact resistance, high		
	Low temperature impact resistance		
Uses	Compliance of Food Exposure		
	Battery box		
	Electrical appliances		
	Container		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	Contact manufacturer		
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)	9.0	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1450	MPa	ISO 527-2/1
Tensile Strength			
Yield	24.5	MPa	ASTM D638
Yield, 23°C	23.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	5.5	%	ASTM D638
Yield, 23°C	4.0	%	ISO 527-2/50
Flexural Modulus	1470	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	3.8	kJ/m ²	ISO 179/1eA
0°C	4.0	kJ/m ²	ISO 179/1eA
23°C	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	90	kJ/m ²	ISO 179/1eU
0°C	140	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ASTM D256
-20°C	49	J/m	ASTM D256
23°C	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	76.0	°C	ISO 75-2/B
Vicat Softening Temperature	144	°C	ISO 306/A50

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