

Moplen EP440M

High Crystallinity Polypropylene

PolyMirae

Message:

Moplen EP440M is the high isotacticity polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen EP440M is a block copolymer is typically used by customers for injection molding of battery case.

General Information			
Features	Block Copolymer		
	High Isotactic		
	High Stiffness		
	Low Temperature Impact Resistance		
	Low Warpage		
	Ultra High Toughness		
Uses	Battery Cases		
RoHS Compliance	Contact Manufacturer		
Appearance	White		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	97		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	27.5	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus (Injection Molded)	1180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, Injection Molded	39	J/m	
23°C, Injection Molded	98	J/m	

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