

Moplen EP440M

High Crystallinity Polypropylene

PolyMirae

Message:

Moplen EP440M is a high isotacticity polypropylene impact copolymer manufactured using the Spheripol process. The grade is known for having an optimized balance of stiffness and toughness. It is particularly suitable for injection molding of battery cases.

General Information			
Features	Low warpage		
	Impact copolymer		
	Impact resistance, good		
	Weldable		
	Good liquidity		
	Good toughness		
Uses	Battery box		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
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)	27.5	MPa	ASTM D638
Tensile Elongation (Yield)	6.0	%	ASTM D638
Flexural Modulus	1180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	39	J/m	ASTM D256
23°C	98	J/m	ASTM D256

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