Technical Data Sheet

Moplen EP440M

Polypropylene, Impact Copolymer

Product Description

Moplen EP440M is a high isotacticity polypropylene impact copolymer with an optimized balance of stiffness and toughness, high impact strength at low temperature, high stiffness and low warpage. Typical customer application is injection molding of battery cases.

Regulatory Status

For regulatory compliance information, see *Moplen* EP440M Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand
Application	Battery Cases
Market	Automotive; Consumer Products
Processing Method	Injection Molding
Attribute	Good Flow; Good Impact Resistance; Impact Copolymer; Low Warpage; Weldable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	9	g/10 min	ASTM D1238
Density	0.90	g/cm³	ASTM D792
Mechanical			
Flexural Modulus	1200	MPa	ASTM D790
Tensile Strength at Yield	28	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Impact			
Notched Izod Impact Strength			
(23 °C)	100	J/m	ASTM D256
(-20 °C)	40	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	97		ASTM D785
Thermal			
Vicat Softening Point	150	°C	ASTM D1525
Deflection Temperature Under Load, (0.46 N/mm²)	100	°C	ASTM D648

Manufacturer website: https://www.polymirae.com/

Notes

These are typical property values not to be construed as specification limits.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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