Technical Data Sheet

Moplen EP500N

Polypropylene, Impact Copolymer

Product Description

Moplen EP500N is a polypropylene impact copolymer with optimized balance of stiffness and toughness, low warpage, and high impact at low temperature. Typical customer applications are injection molding of crates and pails, electrical appliances parts and general housewares.

Regulatory Status

For regulatory compliance information, see *Moplen* EP500N Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand
Application	Furniture; Housewares; Opaque Containers; Small Appliances
Market	Consumer Products; Electrical / Electronics; Rigid Packaging
Processing Method	Injection Molding
Attribute	Good Impact Resistance; Good Processability; Good Stiffness; Impact Copolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	12	g/10 min	ASTM D1238
Density	0.90	g/cm³	ASTM D792
Mechanical			
Flexural Modulus	1150	MPa	ASTM D790
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
Impact			
Notched Izod Impact Strength			
(23 °C)	100	J/m	ASTM D256
(-20 °C)	50	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	95		ASTM D785
Thermal			
Deflection Temperature Under Load, (0.46 N/mm²)	110	°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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