Technical Data Sheet

Moplen EP540N

Polypropylene, Impact Copolymer

Product Description

Moplen EP540N is a nucleated heterophasic copolymer with a medium flow ability, suitable for injection moulding applications.
Moplen EP540N is extensively applied in houseware, caps and in toys.

Regulatory Status

For regulatory compliance information, see *Moplen* EP540N Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Africa-Middle East; Europe
Application	Automotive Parts; Caps & Closures; Housewares; Sports, Leisure & Toys
Market	Compounding; Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Good Impact Resistance; Good Stiffness; Impact Copolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	12	g/10 min	ISO 1133-1
Density	0.9	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	1350	MPa	ISO 178
Tensile Modulus	1400	MPa	ISO 527-1, -2
Tensile Stress at Break	18	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Break	100	%	ISO 527-1, -2
Tensile Strain at Yield	5	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	8.5	kJ/m²	ISO 179
(0 °C)	5	kJ/m²	ISO 179
(-20 °C)	4	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	151	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	100	°C	ISO 75B-1, -2
DSC Melting Point	163	°C	DSC

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

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

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

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