

## 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 \(SDS\)](#).

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

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	12	g/10 min	ISO 1133-1
Density	0.9	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
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	150	%	ISO 527-1, -2
Tensile Strain at Yield	5	%	ISO 527-1, -2
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C)	8.5	kJ/m <sup>2</sup>	ISO 179
(0 °C)	5	kJ/m <sup>2</sup>	ISO 179
(-20 °C)	4	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
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

## 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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