

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.

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/cm ³	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/m ²	ISO 179
(0 °C)	5	kJ/m ²	ISO 179
(-20 °C)	4	kJ/m ²	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