

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 |