

Technical Data Sheet

Moplen EP540P

Polypropylene, Impact Copolymer

Product Description

Moplen EP540P is a nucleated heterophasic copolymer, suitable for injection moulding applications. It exhibits a high stiffness combined with a good impact balance.

Moplen EP540P is typically used in luggage, houseware items, containers, caps and closures.

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

Application	Caps & Closures; Housewares; Luggage; Opaque Containers
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Impact Copolymer; Medium Impact Resistance; Medium Stiffness; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	15	g/10 min	ISO 1133-1
Density	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1300	MPa	ISO 527-1, -2
Tensile Stress at Yield	28	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	6	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	7	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	4.5	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	3	kJ/m ²	ISO 179
Ductile/Brittle Transition Temperature	-45	°C	ISO 6603-2
Hardness			
Ball Indentation Hardness, (H 358/30)	63	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	151	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2