Technical Data Sheet

Moplen EP548L

Polypropylene, Impact Copolymer

Product Description

Moplen EP548L is a heterophasic copolymer suitable for production of beverage closures using both compression and injection moulding technologies. This resin offers a good balance of stiffness and impact strength. The resin is nucleated and additivated with both slip and antistatic agent. Other injection moulding applications may include housewares and medium size containers.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe
Application	Caps & Closures; Housewares; Sports, Leisure & Toys
Market	Consumer Products
Processing Method	Compression Molding; Injection Molding
Attribute	Good Impact Resistance; Good Stiffness; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	6	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus, (23 °C)	1500	MPa	ISO 527-1, -2
Tensile Stress at Yield, (23 °C)	30	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	7	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5.5	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	2.5	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness	64	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	151	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	100	°C	ISO 75B-1, -2

Notes

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