

Moplen EP548R

Polypropylene, Impact Copolymer

Product Description

Moplen EP548R is a nucleated heterophasic copolymer with antistatic agent used for injection moulding applications.

It exhibits an excellent stiffness / impact balance combined with a medium fluidity.

Moplen EP548R is applied in toys, furniture and thin-walled injection moulding items.

Moplen EP548R is suitable for food contact.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Method	Injection Moulding
Features	Antistatic, Medium Flow, Good Impact Resistance , Nucleated, Good Stiffness
Typical Customer Applications	Furniture, Sports, Leisure and Toys, Housewares, Opaque Containers

Typical Properties	Method	Value Unit
Physical		
Density	ISO 1183	0.9 g/cm ³
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	21 g/10 min
Melt volume flow rate (230°C/2.16kg)	ISO 1133	28 cm ³ /10min
Mechanical		
Tensile Modulus	ISO 527-1, -2	1550 MPa
Tensile Stress at Yield	ISO 527-1, -2	27 MPa
Tensile Strain at Break	ISO 527-1, -2	>50 %
Tensile Strain at Yield	ISO 527-1, -2	5 %
Impact		
Charpy unnotched impact strength (23 °C, Type 1, Edgewise)	ISO 179	No Break kJ/m ²
(0 °C, Type 1, Edgewise)		125 kJ/m ²
(-20 °C, Type 1, Edgewise)		100 kJ/m ²
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	6.0 kJ/m ²
(0 °C, Type 1, Edgewise, Notch A)		4.5 kJ/m ²
(-20 °C, Type 1, Edgewise, Notch A)		4.0 kJ/m ²
Ductile/Brittle transition temperature	ISO 6603-2	-60 °C

Notes

Typical properties: not to be construed as specifications.

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Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.

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