



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	ISO 179		
(23 °C, Type 1, Edgewise)		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	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		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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Users should review the applicable Material Safety Data Sheet before handling the product.

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