



Moplen EP548U

Polypropylene, Impact Copolymer

Product Description

Moplen EP548U is a nucleated heterophasic copolymer with antistatic additivition, suitable for injection moulding applications.

It exhibits an outstanding balance of mechanical properties combined with a very high fluidity.

Moplen EP548U is extensively used in housewares and in thin-walled containers for food packaging (e.g. margarine tubs, yoghurt pots, etc.).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Method	Injection Molding
Features	Antistatic, Impact Copolymer, High Flow , Nucleated
Typical Customer Applications	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	70 g/10 min
Mechanical		
Tensile Modulus	ISO 527-1, -2	1550 MPa
Tensile Stress at Yield	ISO 527-1, -2	28 MPa
Tensile Strain at Break	ISO 527-1, -2	30 %
Tensile Strain at Yield	ISO 527-1, -2	5 %
Impact		
Charpy notched impact strength	ISO 179	
(23 °C, Type 1, Edgewise, Notch A)		5.0 kJ/m ²
(0 °C, Type 1, Edgewise, Notch A)		3.5 kJ/m ²
(-20 °C, Type 1, Edgewise, Notch A)		3.0 kJ/m ²
Ductile/Brittle transition temperature	ISO 6603-2	-53 °C
Hardness		
Ball indentation hardness (H 358/30)	ISO 2039-1	68 MPa
Thermal		
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	95 °C
Vicat softening temperature A/50	ISO 306	151 °C
Vicat softening temperature B/50	ISO 306	80 °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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