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Moplen EP548U

Polypropylene, Impact Copolymer

Product Description

Moplen EP548U is a nucleated heterophasic copolymer with antistatic additivation, 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. margerine 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/cm³
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/m²
(0 °C, Type 1, Edgewise, Notch A)		3.5	kJ/m²
(-20 °C, Type 1, Edgewise, Notch A)		3.0	kJ/m²
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.

Release Date: 31 Mar 2009