

Moplen EP548S

Polypropylene, Impact Copolymer

Product Description

"Moplen" EP548S is a nucleated heterophasic copolymer, suitable for injection moulding applications, and contains an anti-static agent. It exhibits an outstanding balance of mechanical properties combined with a medium high fluidity.

"Moplen" EP548S is extensively used in housewares and in thin-walled containers for food packaging (e.g. margarine tubs, yoghurt pots, etc.).

"Moplen" EP548S 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, Copolymer, Impact, Flow, High, Food Contact Acceptable, Nucleated
Typical Customer Applications	Containers, Sports, Leisure and Toys, Housewares, TWIM Food Containers

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.905	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	44	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	59	cm ³ /10min
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 unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		110	kJ/m ²
(0 °C, Type 1, Edgewise)		100	kJ/m ²
(-20 °C, Type 1, Edgewise)		85	kJ/m ²
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
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Thermal

Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	95	°C
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Vicat softening temperature	ISO 306		
(B50 (50°C/h 50N))		80	°C
(A50 (50°C/h 10N))		151	°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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