

Moplen HP548R

Polypropylene, Homopolymer

Product Description

"Moplen" HP548R is a homopolymer for injection moulding with nucleation and antistatic additivation.

"Moplen" HP548R exhibits a good stiffness combined with a good flowability.

The main applications of "Moplen" HP548R are caps, closures, furniture and housewares.

"Moplen" HP548R 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, Flow, Good, Homopolymer, Nucleated, Stiffness, Good
Typical Customer Applications	Furniture, Injection Moulded Caps and Closures, 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	23	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	31	cm ³ /10min
Mechanical			
Tensile Modulus	ISO 527-1, - 2	1650	MPa
Tensile Stress at Yield	ISO 527-1, - 2	35	MPa
Tensile Strain at Break	ISO 527-1, - 2	>50	%
Tensile Strain at Yield	ISO 527-1, - 2	8	%
Impact			
Charpy unnotched impact strength (23 °C, Type 1, Edgewise)	ISO 179	110	kJ/m ²
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	2.5	kJ/m ²
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	78	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, - 2	95	°C

Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		154	°C
(B50 (50°C/h 50N))		94	°C

Notes

Typical properties; not to be construed as specifications.

Further Information

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

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