Moplen EP548P

Polypropylene, Impact Copolymer

Product Description

Moplen EP548P is a nucleated heterophasic copolymer, suitable for injection moulding applications, and contains an anti-static agent.
It exhibits a high stiffness combined with a medium fluidity.

Moplen EP548P is extensively used in houseware, furniture, cylindrical containers and crates.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Injection Molding
Features	Antistatic, Impact Copolymer, Medium Flow, Nucleated, Good Stiffness
Typical Customer Applications	Crates, Furniture, 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	16	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	22	cm³/10min
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	> 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/m²
(0 °C, Type 1, Edgewise)		135	kJ/m²
(-20 °C, Type 1, Edgewise)		90	kJ/m²
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		8	kJ/m²
(0 °C, Type 1, Edgewise, Notch A)		4	kJ/m²
(-20 °C, Type 1, Edgewise, Notch A)		3	kJ/m²
Ductile/Brittle transition temperature	ISO 6603-2	-45	°C
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	69	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	100	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		147	°C
(B50 (50°C/h 50N))		70	°C

Notes

Typical properties; not to be construed as specifications.