Moplen EP548V

Polypropylene, Impact Copolymer

Product Description

Moplen EP548V is a nucleated heterophasic copolymer with antistatic additivation used for injection moulding applications.
It exhibits an outstanding balance of mechanical properties combined with a high fluidity.

Moplen EP548V 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 Methods	Injection Molding
Features	Antistatic, High Flow , Nucleated, Good Processability, High Rigidity
Typical Customer Applications	Housewares, Opaque Containers, Sports, Leisure and Toys

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm³
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	100	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1650	MPa
Tensile Stress at Yield	ISO 527-1, -2	28	MPa
Tensile Strain at Break	ISO 527-1, -2	10	%
Tensile Strain at Yield	ISO 527-1, -2	5	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		3.5	kJ/m²
(0 °C, Type 1, Edgewise, Notch A)		2.5	kJ/m²
(-20 °C, Type 1, Edgewise, Notch A)		2.0	kJ/m²
Ductile/Brittle transition temperature	ISO 6603-2	-45	°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	90	°C
Vicat softening temperature A/50	ISO 306	152	°C
Vicat softening temperature B/50	ISO 306	90	°C

Notes

Typical properties; not to be construed as specifications.