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Moplen EP540N

Polypropylene, Impact Copolymer

Product Description

Moplen EP540N is a nucleated heterophasic copolymer with a medium flowability, suitable for injection moulding applications. *Moplen* EP540N is extensively applied in houseware, caps and in toys. *Moplen* is suitable for food contact.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Injection Molding
Features	Impact Copolymer, Good Impact Resistance , Good Stiffness
Typical Customer Applications	Caps & Closures, Housewares, 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	12	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	16	cm³/10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1500	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	4	%
Impact			
Charpy unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		105	kJ/m²
(0 °C, Type 1, Edgewise)		100	kJ/m²
(-20 °C, Type 1, Edgewise)		75	kJ/m²
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		7.0	kJ/m²
(0 °C, Type 1, Edgewise, Notch A)		4.5	kJ/m²
(-20 °C, Type 1, Edgewise, Notch A)		4.0	kJ/m²
Ductile/Brittle transition temperature	ISO 6603-2	-52	°C
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	63	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))		151	°C
(B50 (50°C/h 50N))		75	°C

Notes

Typical properties; not to be construed as specifications.