



Moplen EP332L

Polypropylene, Impact Copolymer

Product Description

Moplen EP332L is a heterophasic copolymer and is formulated with a highly effective heat stabilisation package. It exhibits a good fluidity combined with a good balance of impact and stiffness as well as a low warpage tendency.

Moplen EP332L is applied in injection moulding applications requiring a good resistance to long term heat exposure, in particular for battery cases and automotive components.

Moplen EP332L is suitable for food contact. It is not intended for medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Injection Molding
Features	Impact Copolymer, Medium Flow, Good Heat Aging Resistance, Heat Stabilized, Good Impact Resistance, Good Stiffness, Low Warpage
Typical Customer Applications	Battery Cases

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm ³
Melt flow rate (MFR) (230 °C/ 2.16 kg)	ISO 1133	7	g/10 min
Melt volume flow rate (230 °C/ 2.16 kg)	ISO 1133	9.5	cm ³ /10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1200	MPa
Tensile Stress at Yield	ISO 527-1, -2	26	MPa
Tensile Strain at Break	ISO 527-1, -2	50	%
Tensile Strain at Yield	ISO 527-1, -2	8	%
Impact			
Charpy unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		No Break	
(0 °C, Type 1, Edgewise)		140	kJ/m ²
(-20 °C, Type 1, Edgewise)		80	kJ/m ²
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		7.5	kJ/m ²
(0 °C, Type 1, Edgewise, Notch A)		4.5	kJ/m ²
(-20 °C, Type 1, Edgewise, Notch A)		3.5	kJ/m ²
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	53	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	70	°C
Vicat softening temperature	ISO 306		
(A50 (50 °C/h 10 N))		148	°C
(B50 (50 °C/h 50 N))		67	°C

Notes

Typical properties; not to be construed as specifications.