Moplen EP1006

Polypropylene, Impact Copolymer

Product Description

Moplen EP1006 is a heterophasic copolymer, suitable for injection moulding, with an additivation for a long term heat resistance.
It exhibits an excellent impact also at low temperature, combined with high stiffness and low stress withening.

Moplen EP1006 can be used in injection moulding for applications requiring a high resistance to temperature degradation, in particular for battery cases and automotive components.

Moplen EP1006 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	0.900	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	2	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	2.7	cm³/10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1500	MPa
Tensile Stress at Yield	ISO 527-1, -2	27	MPa
Tensile Strain at Break	ISO 527-1, -2	21	%
Tensile Strain at Yield	ISO 527-1, -2	6.1	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		24	kJ/m²
(-20 °C, Type 1, Edgewise, Notch A)		5,7	kJ/m²
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	88	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		149	°C
(B50 (50°C/h 50N))		76	°C

Notes

Typical properties; not to be construed as specifications.