Technical Data Sheet

Moplen EP1006

Polypropylene, Impact Copolymer

Product Description

Moplen EP1006 is a heterophasic copolymer with medium flow, used in extrusion and injection molding applications. This grade is nucleated and characterized by a medium stiffness-impact balance also at low temperature combined with low stress whitening. The additive formulation provides a good heat aging resistance.
Moplen EP1006 is typically used by customers requiring a high resistance to temperature degradation, in particular for battery cases and automotive components.

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

Application	Battery Cases
Market	Automotive; Consumer Products; Industrial, Building & Construction
Processing Method	Injection Molding
Attribute	Good Heat Aging Resistance; Good Impact Resistance; Good Stiffness; Heat Stabilized; Impact Copolymer; Low Warpage

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	2	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	1350	MPa	ISO 178
Tensile Modulus	1300	MPa	ISO 527-1, -2
Tensile Stress at Break	7	MPa	ISO 527-1, -2
Tensile Stress at Yield	26	MPa	ISO 527-1, -2
Tensile Strain at Break	100	%	ISO 527-1, -2
Tensile Strain at Yield	8	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	35	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	6	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	149	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	88	°C	ISO 75B-1, -2