

## 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.

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

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	2	g/10 min	ISO 1133-1
Density	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
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
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	35	kJ/m <sup>2</sup>	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	6	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
Vicat Softening Temperature, (A50)	149	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	88	°C	ISO 75B-1, -2