

## Technical Data Sheet

### Moplen EP332L



Polypropylene, Impact Copolymer

#### Product Description

Moplen EP332L is a heterophasic copolymer with medium flow used in injection molding. This grade is characterized by a medium stiffness-impact balance at low temperature as well as a low warpage tendency. The additive formulation provides a good heat aging resistance.

Moplen EP332L 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.

|                   |                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------|
| 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   |
|-------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                       |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                      | 7             | g/10 min          | ISO 1133-1    |
| Density                                               | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                     |               |                   |               |
| Flexural Modulus                                      | 1200          | MPa               | ISO 178       |
| Tensile Modulus                                       | 1200          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Break                               | 17            | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                               | 26            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break                               | 70            | %                 | 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)                    | 9             | kJ/m <sup>2</sup> | ISO 179       |
| (0 °C, Type 1, Edgewise, Notch A)                     | 6             | kJ/m <sup>2</sup> | ISO 179       |
| (-20 °C, Type 1, Edgewise, Notch A)                   | 3.5           | kJ/m <sup>2</sup> | ISO 179       |
| <b>Thermal</b>                                        |               |                   |               |
| Vicat Softening Temperature, (A50)                    | 148           | °C                | ISO 306       |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 84            | °C                | ISO 75B-1, -2 |