

## Technical Data Sheet

### Moplen EP340M

Polypropylene, Impact Copolymer

#### Product Description

Moplen EP340M is a nucleated heterophasic copolymer, used in injection moulding applications.

Moplen EP340M features a high impact performance with good stiffness.

Moplen EP340M is typically used by customers in housewares, toys, luggage, transport and cold storage crates and consumer components subjected to low temperatures. The resin is also used as base material in technical compounding.

Moplen EP340M is UL listed under file E31765.

This grade is not intended for medical and pharmaceutical applications.

|                          |                                                                                            |
|--------------------------|--------------------------------------------------------------------------------------------|
| <b>Application</b>       | Crates; Housewares; Luggage; Sports, Leisure & Toys                                        |
| <b>Market</b>            | Consumer Products                                                                          |
| <b>Processing Method</b> | Injection Molding                                                                          |
| <b>Attribute</b>         | Good Processability; High Impact Resistance; Impact Copolymer; Medium Stiffness; Nucleated |

| Typical Properties                                        | Nominal Value | Units             | Test Method   |
|-----------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                           |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                          | 7.5           | g/10 min          | ISO 1133-1    |
| Density                                                   | 0.90          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                         |               |                   |               |
| Tensile Modulus                                           | 1050          | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                                   | 21            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break                                   | >50           | %                 | ISO 527-1, -2 |
| Tensile Strain at Yield                                   | 6             | %                 | ISO 527-1, -2 |
| <b>Impact</b>                                             |               |                   |               |
| Charpy Impact Strength - Notched                          |               |                   |               |
| (23 °C, Type 1, Edgewise, Notch A)                        | 45            | kJ/m <sup>2</sup> | ISO 179       |
| (0 °C, Type 1, Edgewise, Notch A)                         | 9             | kJ/m <sup>2</sup> | ISO 179       |
| (-20 °C, Type 1, Edgewise, Notch A)                       | 7             | kJ/m <sup>2</sup> | ISO 179       |
| Ductile/Brittle Transition Temperature                    | -55           | °C                | ISO 6603-2    |
| <b>Hardness</b>                                           |               |                   |               |
| Ball Indentation Hardness                                 | 46            | MPa               | ISO 2039-1    |
| <b>Thermal</b>                                            |               |                   |               |
| Vicat Softening Temperature, (A50)                        | 144           | °C                | ISO 306       |
| Deflection Temperature Under Load, (0.45 MPa, Unannealed) | 80            | °C                | ISO 75B-1, -2 |