

## Technical Data Sheet

**Moplen EP649N**

Polypropylene, Impact Copolymer

**Product Description**

Moplen EP649N is a polypropylene impact copolymer manufactured with high gloss, good stiffness and impact balance, and excellent antistatic properties. Typical customer applications are injection molding of electrical appliance parts, toys and housewares.

**Regulatory Status**

For regulatory compliance information, see Moplen EP649N [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

|                          |                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Status</b>            | Commercial: Active                                                                                                     |
| <b>Availability</b>      | Africa-Middle East; Asia-Pacific; Australia and New Zealand                                                            |
| <b>Application</b>       | Dishwashing Appliances; Housewares; Opaque Containers; Small Appliances;<br>Sports, Leisure & Toys; Washing Appliances |
| <b>Market</b>            | Consumer Products; Electrical / Electronics                                                                            |
| <b>Processing Method</b> | Injection Molding                                                                                                      |
| <b>Attribute</b>         | Contains Antistat; High Gloss; High Stiffness; Impact Copolymer; Scratch Resistant                                     |

| Typical Properties                                           | Nominal Value | Units             | Test Method |
|--------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                              |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                             | 10            | g/10 min          | ASTM D1238  |
| Density                                                      | 0.90          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                            |               |                   |             |
| Flexural Modulus                                             | 1850          | MPa               | ASTM D790   |
| Tensile Strength at Yield                                    | 32            | MPa               | ASTM D638   |
| Tensile Elongation at Yield                                  | 7             | %                 | ASTM D638   |
| <b>Impact</b>                                                |               |                   |             |
| Notched Izod Impact Strength                                 |               |                   |             |
| (23 °C)                                                      | 100           | J/m               | ASTM D256   |
| (-20 °C)                                                     | 40            | J/m               | ASTM D256   |
| <b>Thermal</b>                                               |               |                   |             |
| Vicat Softening Point                                        | 150           | °C                | ASTM D1525  |
| Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> ) | 130           | °C                | ASTM D648   |

**Notes**

These are typical property values not to be construed as specification limits.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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- (ii) applications involving permanent implantation into the body;
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