

## Technical Data Sheet

### Moplen EP640T

Polypropylene, Impact Copolymer



#### Product Description

Moplen EP640T is a polypropylene impact copolymer with optimized balance of stiffness and toughness, low warpage, and high impact strength at low temperature. Typical customer applications are injection molding of electrical appliance parts, thin-wall packaging, and base resin of compounds for automobiles.

#### Regulatory Status

For regulatory compliance information, see Moplen EP640T [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>       | Cooling Appliances; Dishwashing Appliances; Housewares; Opaque Containers; Washing Appliances |
| <b>Market</b>            | Automotive; Consumer Products; Electrical / Electronics; Rigid Packaging                      |
| <b>Processing Method</b> | Injection Molding                                                                             |
| <b>Attribute</b>         | High Flow; High Stiffness; Impact Copolymer                                                   |

| Typical Properties                                           | Nominal Value | Units             | Test Method |
|--------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                              |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                             | 51            | g/10 min          | ASTM D1238  |
| Density                                                      | 0.90          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                            |               |                   |             |
| Flexural Modulus                                             | 1700          | MPa               | ASTM D790   |
| Tensile Strength at Yield                                    | 28            | MPa               | ASTM D638   |
| Tensile Elongation at Yield                                  | 5             | %                 | ASTM D638   |
| <b>Impact</b>                                                |               |                   |             |
| Notched Izod Impact Strength                                 |               |                   |             |
| (23 °C)                                                      | 70            | J/m               | ASTM D256   |
| (-20 °C)                                                     | 30            | J/m               | ASTM D256   |
| <b>Hardness</b>                                              |               |                   |             |
| Rockwell Hardness, (R-Scale)                                 | 98            |                   | ASTM D785   |
| <b>Thermal</b>                                               |               |                   |             |
| Vicat Softening Point                                        | 150           | °C                | ASTM D1525  |
| Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> ) | 125           | °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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- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
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