

## Technical Data Sheet

### Moplen EP549N



Polypropylene, Impact Copolymer

#### Product Description

Moplen EP549N is a medium melt flow polypropylene impact copolymer resin, with low warpage, good impact stiffness balance, good flowability, low stress whitening, good UV stability, and good thermal resistance. Typical customer applications are battery casing with good sealing properties in low fiber generation, industrial containers, and motorcycle parts.

#### Regulatory Status

For regulatory compliance information, see Moplen EP549N [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>       | Battery Cases; Industrial Packaging                         |
| <b>Market</b>            | Consumer Products   |
| <b>Processing Method</b> | Injection Molding   |
| <b>Attribute</b>         | Good Impact Resistance; Good Stiffness; Impact Copolymer    |

| Typical Properties                    | Nominal Value | Units             | Test Method |
|---------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                       |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)      | 12            | g/10 min          | ASTM D1238  |
| Density                               | 0.90          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                     |               |                   |             |
| Flexural Modulus                      | 1350          | MPa               | ASTM D790   |
| Tensile Strength at Yield             | 26            | MPa               | ASTM D638   |
| Tensile Elongation at Yield           | 6             | %                 | ASTM D638   |
| <b>Impact</b>                         |               |                   |             |
| Notched Izod Impact Strength, (23 °C) | 100           | J/m               | ASTM D256   |
| <b>Thermal</b>                        |               |                   |             |
| Deflection Temperature Under Load     | 100           | °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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