

## Moplen EP640R

Block copolymer



### Product Description

Moplen EP640R is the polypropylene block copolymer manufactured by PMC under the license of Lyondellbasell using the Spheripol process. Moplen EP640R is a block copolymer suitable for injection molding of washing machine tub, thin-walled packaging, parts of electrical appliances, housewares etc. Moplen EP640R resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| <b>Features</b>    | Optimized balance of stiffness and toughness/ Low warpage/ High welding strength |
| <b>Market</b>      | Automotive/Compounds, Consumer Products                                          |
| <b>Application</b> | Washing machine tub/ Electrical appliances/ Housewares                           |

| ASTM Data                     |               |          |             |
|-------------------------------|---------------|----------|-------------|
| Typical Properties            | Nominal Value | Units    | Test Method |
| Melt Flow Rate (230°C,2.16kg) | 32            | g/10 min | ASTM D1238L |
| Density                       | 0.9           | g/cm3    | ASTM D1505  |
| Flexural Modulus              | 16000         | kg/cm2   | ASTM D790   |
| Tensile Strength at Yield     | 280           | kg/cm2   | ASTM D638   |
| Elongation at Yield           | 5             | %        | ASTM D638   |
| Izod Impact Strength (23°C)   | 9             | kgcm/cm  | ASTM D256   |
| Izod Impact Strength (-20°C)  | 4             | kgcm/cm  | ASTM D256   |
| Rockwell Hardness             | 98            | R-Scale  | ASTM D785   |
| Vicat Softening Point         | 145           | °C       | ASTM D1525  |
| HDT (0.46 N/mm²)              | 125           | °C       | ASTM D648   |

1) The above values are typical property values for reference only not be construed as specification limits.

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