

## PolyMirae Moplen EP540R Injection Molding Grade Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

### Material Notes:

Moplen EP540R is the polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process.

Moplen EP540R is a block copolymer particularly suitable for injection molding of washing machine tub, houseware, thin wall containers, etc. Moplen EP540R resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 178.2010 for food packaging substances with adequate additives. And contains no dangerous substances according to Federal Regulations in 21 CFR 177.1520.

Features: Optimized balance stiffness and toughness; High impact strength even at low temperature; Narrow molecular weight distribution; Low warpage

Applications: Washing machine tub; Houseware; Thin wall containers  
Information provided by PolyMirae Company Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyMirae-Moplen-EP540R-Injection-Molding-Grade-Polypropylene.php](http://www.lookpolymers.com/polymer_PolyMirae-Moplen-EP540R-Injection-Molding-Grade-Polypropylene.php)

| Physical Properties | Metric                                              | English                                             | Comments                |
|---------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------|
| Density             | 0.900 g/cc                                          | 0.0325 lb/in <sup>3</sup>                           | ASTM D1505              |
| Melt Flow           | 32 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 32 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | Condition L; ASTM D1238 |

| Mechanical Properties   | Metric     | English       | Comments  |
|-------------------------|------------|---------------|-----------|
| Hardness, Rockwell R    | 95         | 95            | ASTM D785 |
| Tensile Strength, Yield | 27.5 MPa   | 3980 psi      | ASTM D638 |
| Elongation at Yield     | 20 %       | 20 %          | ASTM D638 |
| Flexural Modulus        | 1.47 GPa   | 213 ksi       | ASTM D790 |
| Izod Impact, Notched    | 0.785 J/cm | 1.47 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments   |
|---------------------------------------------|--------|---------|------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 120 °C | 248 °F  | ASTM D648  |
| Vicat Softening Point                       | 152 °C | 306 °F  | ASTM D1525 |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China