

## Fiberfil® J-60/15/E Polypropylene Homopolymer, 15% Glass Reinforced, Chemically coupled

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Information provided by FIBERFIL Engineered Plastics

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Fiberfil-J-6015E-Polypropylene-Homopolymer-15-Glass-Reinforced-Chemically-coupled.php](http://www.lookpolymers.com/polymer_Fiberfil-J-6015E-Polypropylene-Homopolymer-15-Glass-Reinforced-Chemically-coupled.php)

| Physical Properties   | Metric                | English               | Comments                       |
|-----------------------|-----------------------|-----------------------|--------------------------------|
| Specific Gravity      | 1.01 g/cc             | 1.01 g/cc             | ASTM D792                      |
| Water Absorption      | 0.030 %               | 0.030 %               | 24 hr; ASTM D570               |
| Linear Mold Shrinkage | 0.0040 - 0.0050 cm/cm | 0.0040 - 0.0050 in/in | ASTM D955                      |
|                       | @Thickness 6.35 mm    | @Thickness 0.250 in   |                                |
|                       | 0.0040 - 0.0050 cm/cm | 0.0040 - 0.0050 in/in | ASTM D955                      |
|                       | @Thickness 3.17 mm    | @Thickness 0.125 in   |                                |
| Melt Flow             | 8.0 g/10 min          | 8.0 g/10 min          | 230/2.16 (typical); ASTM D1238 |

| Mechanical Properties   | Metric             | English             | Comments           |
|-------------------------|--------------------|---------------------|--------------------|
| Hardness, Rockwell R    | 100 - 110          | 100 - 110           | ASTM D785          |
| Tensile Strength, Yield | 62.1 MPa           | 9000 psi            | ASTM D638          |
| Elongation at Yield     | 4.0 %              | 4.0 %               | ASTM D638          |
| Tensile Modulus         | 3.52 GPa           | 510 ksi             | ASTM D638          |
| Flexural Strength       | 75.8 MPa           | 11000 psi           | ASTM D790          |
| Flexural Modulus        | 3.17 GPa           | 460 ksi             | Tangent; ASTM D790 |
| Izod Impact, Notched    | 0.534 J/cm         | 1.00 ft-lb/in       | ASTM D256          |
|                         | @Thickness 3.17 mm | @Thickness 0.125 in |                    |

| Thermal Properties                          | Metric  | English | Comments  |
|---------------------------------------------|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 152 Â°C | 305 Â°F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 143 Â°C | 290 Â°F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Processing Properties     | Metric            | English         | Comments                     |
|---------------------------|-------------------|-----------------|------------------------------|
| Middle Barrel Temperature | 204 - 227 Â°C     | 400 - 440 Â°F   |                              |
| Front Barrel Temperature  | 182 - 199 Â°C     | 360 - 390 Â°F   |                              |
| Nozzle Temperature        | 182 - 193 Â°C     | 360 - 380 Â°F   |                              |
| Melt Temperature          | 199 - 232 Â°C     | 390 - 450 Â°F   |                              |
| Mold Temperature          | 32.2 - 71.1 Â°C   | 90.0 - 160 Â°F  |                              |
| Drying Temperature        | 76.7 Â°C          | 170 Â°F         | Drying not normally required |
| Dry Time                  | 2 hour            | 2 hour          | Drying not normally required |
| Moisture Content          | <= 0.20 %         | <= 0.20 %       | recommended for molding      |
| Back Pressure             | 0.000 - 0.689 MPa | 0.000 - 100 psi |                              |

## Contact Songhan Plastic Technology Co.,Ltd.

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