

## Fiberfil® PP-60/TC/13 BL8860 Polypropylene Homopolymer, 13% Talc Filled

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-PP-60TC13-BL8860-Polypropylene-Homopolymer-13-Talc-Filled.php](http://www.lookpolymers.com/polymer_Fiberfil-PP-60TC13-BL8860-Polypropylene-Homopolymer-13-Talc-Filled.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 | 0.013 cm/cm        | 0.013 in/in         | ASTM D955                      |
|                       | @Thickness 3.17 mm | @Thickness 0.125 in |                                |
|                       | 0.020 cm/cm        | 0.020 in/in         | ASTM D955                      |
|                       | @Thickness 6.35 mm | @Thickness 0.250 in |                                |
|                       | 0.030 cm/cm        | 0.030 in/in         | ASTM D955                      |
|                       | @Thickness 12.7 mm | @Thickness 0.500 in |                                |
| Melt Flow             | 13 g/10 min        | 13 g/10 min         | 230/2.16 (typical); ASTM D1238 |

| Mechanical Properties   | Metric             | English             | Comments           |
|-------------------------|--------------------|---------------------|--------------------|
| Hardness, Rockwell R    | 90 - 95            | 90 - 95             | ASTM D785          |
| Tensile Strength, Yield | 33.8 MPa           | 4900 psi            | ASTM D638          |
| Elongation at Yield     | 25 %               | 25 %                | ASTM D638          |
| Tensile Modulus         | 2.34 GPa           | 340 ksi             | ASTM D638          |
| Flexural Strength       | 48.3 MPa           | 7000 psi            | ASTM D790          |
| Flexural Modulus        | 2.21 GPa           | 320 ksi             | Tangent; ASTM D790 |
| Izod Impact, Notched    | 0.267 J/cm         | 0.500 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) | 132 Â°C  | 270 Â°F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 85.0 Â°C | 185 Â°F | ASTM D648 |

| Processing Properties     | Metric            | English         | Comments                     |
|---------------------------|-------------------|-----------------|------------------------------|
| Rear Barrel Temperature   | 199 - 210 Â°C     | 390 - 410 Â°F   |                              |
| 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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