

**Fiberfil® PP-68/V2 Polypropylene Copolymer, Flame Retardant, UL94 V2**

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-68V2-Polypropylene-Copolymer-Flame-Retardant-UL94-V2.php](http://www.lookpolymers.com/polymer_Fiberfil-PP-68V2-Polypropylene-Copolymer-Flame-Retardant-UL94-V2.php)

| Physical Properties   | Metric              | English             | Comments                       |
|-----------------------|---------------------|---------------------|--------------------------------|
| Specific Gravity      | 0.980 g/cc          | 0.980 g/cc          | ASTM D792                      |
| Water Absorption      | 0.020 %             | 0.020 %             | 24 hr; ASTM D570               |
| Linear Mold Shrinkage | 0.017 - 0.021 cm/cm | 0.017 - 0.021 in/in | ASTM D955                      |
|                       | @Thickness 3.17 mm  | @Thickness 0.125 in |                                |
|                       | 0.020 - 0.024 cm/cm | 0.020 - 0.024 in/in | ASTM D955                      |
|                       | @Thickness 6.35 mm  | @Thickness 0.250 in |                                |
| Melt Flow             | 20 g/10 min         | 20 g/10 min         | 230/2.16 (typical); ASTM D1238 |

| Mechanical Properties   | Metric             | English             | Comments           |
|-------------------------|--------------------|---------------------|--------------------|
| Hardness, Rockwell R    | 85 - 90            | 85 - 90             | ASTM D785          |
| Tensile Strength, Yield | 19.0 MPa           | 2760 psi            | ASTM D638          |
| Elongation at Yield     | 25 %               | 25 %                | ASTM D638          |
| Tensile Modulus         | 0.896 GPa          | 130 ksi             | ASTM D638          |
| Flexural Strength       | 31.7 MPa           | 4600 psi            | ASTM D790          |
| Flexural Modulus        | 0.827 GPa          | 120 ksi             | Tangent; ASTM D790 |
| Izod Impact, Notched    | 3.20 J/cm          | 6.00 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) | 71.1 Â°C           | 160 Â°F              | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 62.8 Â°C           | 145 Â°F              | ASTM D648 |
| Flammability, UL94                          | V-2                | V-2                  |           |
|                                             | @Thickness 1.50 mm | @Thickness 0.0591 in |           |

| Processing Properties     | Metric            | English         | Comments                     |
|---------------------------|-------------------|-----------------|------------------------------|
| Rear Barrel Temperature   | 182 - 199 Â°C     | 360 - 390 Â°F   |                              |
| Middle Barrel Temperature | 193 - 210 Â°C     | 380 - 410 Â°F   |                              |
| Front Barrel Temperature  | 188 - 204 Â°C     | 370 - 400 Â°F   |                              |
| Nozzle Temperature        | 182 - 193 Â°C     | 360 - 380 Â°F   |                              |
| Melt Temperature          | 193 - 216 Â°C     | 380 - 420 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 |                              |

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