

Technical Data Sheet  
**Fiberfil® PP-60/CC/20**  
Polypropylene Homopolymer  
Engineering Plastics



| General                |                                           |  |  |
|------------------------|-------------------------------------------|--|--|
| Filler / Reinforcement | • Calcium Carbonate, 20% Filler by Weight |  |  |
| Features               | • Homopolymer                             |  |  |
| RoHS Compliance        | • RoHS Compliant                          |  |  |
| Forms                  | • Pellets                                 |  |  |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|-------------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity                | 1.06                    | 1.06 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 13 g/10 min             | 13 g/10 min            | ASTM D1238  |
| Molding Shrinkage - Flow                  |                         |                        | ASTM D955   |
| 0.125 in (3.18 mm)                        | 0.012 in/in             | 1.2 %                  |             |
| 0.250 in (6.35 mm)                        | 0.013 in/in             | 1.3 %                  |             |
| Water Absorption (24 hr)                  | 0.010 %                 | 0.010 %                | ASTM D570   |
| Mechanical                                | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Modulus (73°F (23°C))             | 340000 psi              | 2340 MPa               | ASTM D638   |
| Tensile Strength (73°F (23°C))            | 4300 psi                | 29.6 MPa               | ASTM D638   |
| Tensile Elongation (Yield, 73°F (23°C))   | 50 %                    | 50 %                   | ASTM D638   |
| Flexural Modulus - Tangent (73°F (23°C))  | 290000 psi              | 2000 MPa               | ASTM D790   |
| Flexural Strength (73°F (23°C))           | 5900 psi                | 40.7 MPa               | ASTM D790   |
| Impact                                    | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact                       |                         |                        | ASTM D256   |
| 73°F (23°C), 0.125 in (3.18 mm)           | 0.60 ft·lb/in           | 32 J/m                 |             |
| Hardness                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Rockwell Hardness (R-Scale)               | 94                      | 94                     | ASTM D785   |
| Thermal                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load         |                         |                        | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed             | 250 °F                  | 121 °C                 |             |
| 264 psi (1.8 MPa), Unannealed             | 160 °F                  | 71.1 °C                |             |

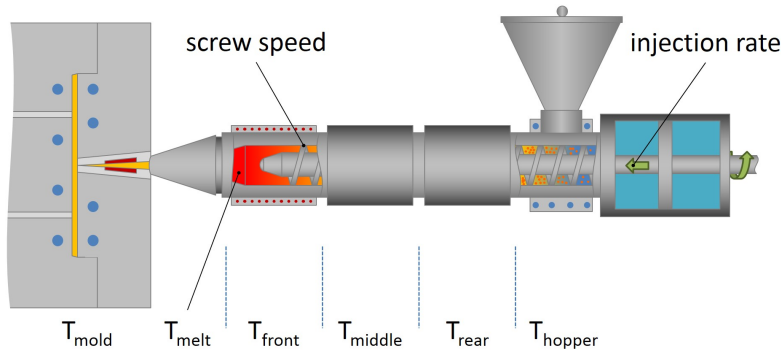


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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 170 °F                  | 77 °C              |
| Drying Time            | 2.0 hr                  | 2.0 hr             |
| Suggested Max Moisture | 0.20 %                  | 0.20 %             |
| Rear Temperature       | 390 to 410 °F           | 199 to 210 °C      |
| Middle Temperature     | 400 to 440 °F           | 204 to 227 °C      |
| Front Temperature      | 360 to 390 °F           | 182 to 199 °C      |
| Nozzle Temperature     | 360 to 380 °F           | 182 to 193 °C      |
| Processing (Melt) Temp | 390 to 450 °F           | 199 to 232 °C      |
| Mold Temperature       | 90 to 160 °F            | 32 to 71 °C        |
| Injection Rate         | Moderate-Fast           | Moderate-Fast      |
| Back Pressure          | 0.00 to 100 psi         | 0.00 to 0.689 MPa  |

**Injection Notes**

Screw speed: Medium to Fast

**Notes**

These are typical property values not to be construed as specification limits.

