

# Fiberfil® J-60/20/FR

Polypropylene Homopolymer

Fiberfil® Engineered Plastics Inc.

## Message:

Fiberfil® J-60/20/FR is a polypropylene homopolymer (PP Homopoly) material, and the filler is 20% glass fiber reinforced material. This product is available in North America.

Fiberfil® The main features of J-60/20/FR are:

flame retardant/rated flame

Flame Retardant

Homopolymer

| General Information                       |                                                       |                   |             |
|-------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass fiber reinforced material, 20% filler by weight |                   |             |
| Features                                  | Homopolymer                                           |                   |             |
|                                           | Flame retardancy                                      |                   |             |
| Forms                                     | Particle                                              |                   |             |
| Physical                                  | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                          | 1.42                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 5.0                                                   | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                  |                                                       |                   | ASTM D955   |
| 3.18 mm                                   | 0.20                                                  | %                 | ASTM D955   |
| 6.35 mm                                   | 0.20                                                  | %                 | ASTM D955   |
| Water Absorption (24 hr)                  | 0.020                                                 | %                 | ASTM D570   |
| Hardness                                  | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 100 - 110                                             |                   | ASTM D785   |
| Mechanical                                | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus (23°C)                    | 6210                                                  | MPa               | ASTM D638   |
| Tensile Strength (23°C)                   | 72.4                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Yield, 23°C)          | 3.0                                                   | %                 | ASTM D638   |
| Flexural Modulus - Tangent (23°C)         | 5520                                                  | MPa               | ASTM D790   |
| Flexural Strength (23°C)                  | 96.5                                                  | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)       | 80                                                    | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load         |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed                    | 154                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                     | 149                                                   | °C                | ASTM D648   |
| Flammability                              | Nominal Value                                         |                   | Test Method |
| Flame Rating (1.60 mm)                    | V-0                                                   |                   | UL 94       |
| Injection                                 | Nominal Value                                         | Unit              |             |

|                        |              |     |
|------------------------|--------------|-----|
| Drying Temperature     | 76.7         | °C  |
| Drying Time            | 2.0          | hr  |
| Suggested Max Moisture | 0.20         | %   |
| Rear Temperature       | 199 - 210    | °C  |
| Middle Temperature     | 204 - 227    | °C  |
| Front Temperature      | 182 - 199    | °C  |
| Nozzle Temperature     | 182 - 193    | °C  |
| Processing (Melt) Temp | 199 - 232    | °C  |
| Mold Temperature       | 32.2 - 71.1  | °C  |
| Injection Rate         | Moderate     |     |
| Back Pressure          | 0.00 - 0.689 | MPa |

#### Injection instructions

Screw speed: Medium

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#### Recommended distributors for this material

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