

# Fiberfil® PP-60/FR

Polypropylene Homopolymer

Fiberfil® Engineered Plastics Inc.

## Message:

Fiberfil®PP-60/FR is a polypropylene homopolymer (PP Homopoly) material. This product is available in North America.

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

flame retardant/rated flame

Flame Retardant

Homopolymer

| General Information                       |                  |                   |             |
|-------------------------------------------|------------------|-------------------|-------------|
| Features                                  | Homopolymer      |                   |             |
|                                           | Flame retardancy |                   |             |
| Forms                                     | Particle         |                   |             |
| Physical                                  | Nominal Value    | Unit              | Test Method |
| Specific Gravity                          | 1.46             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 10 - 15          | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                  |                  |                   | ASTM D955   |
| 3.18 mm                                   | 1.0 - 1.2        | %                 | ASTM D955   |
| 6.35 mm                                   | 1.2 - 1.4        | %                 | ASTM D955   |
| Water Absorption (24 hr)                  | 0.020            | %                 | ASTM D570   |
| Hardness                                  | Nominal Value    | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 90 - 95          |                   | ASTM D785   |
| Mechanical                                | Nominal Value    | Unit              | Test Method |
| Tensile Modulus (23°C)                    | 3100             | MPa               | ASTM D638   |
| Tensile Strength (23°C)                   | 24.8             | MPa               | ASTM D638   |
| Tensile Elongation (Yield, 23°C)          | 5.0              | %                 | ASTM D638   |
| Flexural Modulus - Tangent (23°C)         | 2900             | MPa               | ASTM D790   |
| Flexural Strength (23°C)                  | 37.9             | MPa               | ASTM D790   |
| Impact                                    | Nominal Value    | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)       | 16               | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value    | Unit              | Test Method |
| Deflection Temperature Under Load         |                  |                   | ASTM D648   |
| 0.45 MPa, not annealed                    | 98.9             | °C                | ASTM D648   |
| 1.8 MPa, not annealed                     | 93.3             | °C                | ASTM D648   |
| Flammability                              | Nominal Value    |                   | Test Method |
| Flame Rating (1.50 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       | 177 - 210     | °C  |
| Middle Temperature     | 193 - 227     | °C  |
| Front Temperature      | 188 - 221     | °C  |
| Nozzle Temperature     | 188 - 221     | °C  |
| Processing (Melt) Temp | 193 - 216     | °C  |
| Mold Temperature       | 32.2 - 54.4   | °C  |
| Injection Rate         | Moderate-Fast |     |
| Back Pressure          | 0.345         | MPa |
| Injection instructions |               |     |

Screw speed: Medium

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