

Polyfort PP-60/TC/20 GY9391GRY

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

Polyfort PP-60/TC/20 GY9391GRY is a Polypropylene Homopolymer Talc, 20% filled material. Features include: Homopolymer.

General

| | |
|------------------------|------------------------------|
| Filler / Reinforcement | • Talc, 20% Filler by Weight |
| Features | • Homopolymer |
| Forms | • Pellets |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|----------|-------------|
| Density / Specific Gravity | 1.06 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 10 | g/10 min | ASTM D1238 |
| Water Absorption (24 hr) | 0.030 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (73°F) | 370000 | psi | ASTM D638 |
| Tensile Strength (73°F) | 5000 | psi | ASTM D638 |
| Tensile Elongation (Yield, 73°F) | 20 | % | ASTM D638 |
| Flexural Modulus - Tangent (73°F) | 339000 | psi | ASTM D790 |
| Flexural Strength (73°F) | 7010 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (73°F, 0.125 in) | 0.51 | ft·lb/in | ASTM D256 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 90 to 95 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 210 | °F | ASTM D648 |
| Deflection Temperature Under Load 264 psi, Unannealed | 200 | °F | ASTM D648 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 171 | °F |
| Drying Time | 2.0 | hr |
| Suggested Max Moisture | 0.20 | % |
| Rear Temperature | 390 to 410 | °F |
| Middle Temperature | 399 to 441 | °F |
| Front Temperature | 360 to 390 | °F |
| Nozzle Temperature | 360 to 379 | °F |
| Processing (Melt) Temp | 390 to 450 | °F |
| Mold Temperature | 90 to 160 | °F |
| Injection Rate | Moderate-Fast | |
| Back Pressure | 0.00 to 99.9 | psi |