



Celstran® PP-GF40-03-Black

Celanese Corporation - Polypropylene

Tuesday, November 5, 2019

General Information

Product Description

40% long glass fiber reinforced, chemically coupled, heat stabilized, Polypropylene BLACK

General

| | | |
|---------------------------|--|-------------------|
| Material Status | • Commercial: Active | |
| Availability | • North America | |
| Filler / Reinforcement | • Long Glass Fiber, 40% Filler by Weight | |
| Additive | • Heat Stabilizer | |
| Features | • Chemically Coupled | • Heat Stabilized |
| RoHS Compliance | • Contact Manufacturer | |
| Automotive Specifications | • GM GMP.PP.112 Color: Black | |
| Appearance | • Black | |

ASTM & ISO Properties ¹

| | Nominal Value | Unit | Test Method |
|---|---------------|-----------------------|----------------|
| Physical | | | |
| Density | 1.21 | g/cm ³ | ISO 1183 |
| Mechanical | | | |
| Tensile Modulus | 1.21E+6 | psi | ISO 527-2/1A/1 |
| Tensile Stress (Break) | 16500 | psi | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 2.0 | % | ISO 527-2/1A/5 |
| Flexural Modulus (73°F) | 1.20E+6 | psi | ISO 178 |
| Flexural Stress (73°F) | 27600 | psi | ISO 178 |
| Impact | | | |
| Charpy Notched Impact Strength (73°F) | 14 | ft·lb/in ² | ISO 179/1eA |
| Thermal | | | |
| Heat Deflection Temperature (264 psi, Unannealed) | 316 | °F | ISO 75-2/A |

Processing Information

| | Nominal Value | Unit |
|------------------------|---------------|------|
| Injection | | |
| Drying Temperature | 194 to 212 | °F |
| Drying Time | 2.0 | hr |
| Suggested Max Moisture | 0.20 | % |
| Rear Temperature | 410 to 428 | °F |
| Middle Temperature | 428 to 446 | °F |
| Front Temperature | 446 to 464 | °F |
| Nozzle Temperature | 446 to 482 | °F |
| Processing (Melt) Temp | 446 to 482 | °F |
| Mold Temperature | 104 to 158 | °F |

Injection Notes

Zone 4 Temperature: 230 to 250°C

Feed Temperature: 20 to 50°C

Notes

¹ Typical properties: these are not to be construed as specifications.

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