



Celstran® PP-GF40-10

Celanese Corporation - Polypropylene

Tuesday, November 5, 2019

General Information

Product Description

40% long strand glass fiber reinforced, chemically coupled and 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 | • CHRYSLER MS-DB-21 Type A CPN4451 Color: Color As Noted On Drawing | |
| Appearance | • Black | |

ASTM & ISO Properties ¹

| | Nominal Value | Unit | Test Method |
|---------------------------------------|---------------|-----------------------|----------------|
| Physical | | | |
| Density / Specific Gravity | 1.21 | | ASTM D792 |
| Density | 1.21 | g/cm ³ | ISO 1183 |
| Mechanical | | | |
| Tensile Modulus (73°F) | 1.24E+6 | psi | ASTM D638 |
| Tensile Modulus | 1.14E+6 | psi | ISO 527-2/1A/1 |
| Tensile Strength (Break, 73°F) | 18100 | psi | ASTM D638 |
| Tensile Stress (Break) | 13900 | psi | ISO 527-2/1A/5 |
| Tensile Elongation (Break, 73°F) | 2.1 | % | ASTM D638 |
| Tensile Strain (Break) | 1.9 | % | ISO 527-2/1A/5 |
| Flexural Modulus (73°F) | 1.16E+6 | psi | ISO 178 |
| Flexural Stress (73°F) | 24700 | psi | ISO 178 |
| Impact | | | |
| Charpy Notched Impact Strength (73°F) | 8.6 | ft·lb/in ² | ISO 179/1eA |
| Thermal | | | |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi, Unannealed | 306 | °F | |

Processing Information

| | Nominal Value | Unit |
|------------------------|---------------|------|
| Injection | | |
| Drying Temperature | 194 to 212 | °F |
| Drying Time | 2.0 | hr |
| Suggested Max Moisture | 0.20 | % |
| Rear Temperature | 392 to 410 | °F |
| Middle Temperature | 410 to 428 | °F |
| Front Temperature | 410 to 446 | °F |
| Nozzle Temperature | 410 to 446 | °F |
| Processing (Melt) Temp | 410 to 446 | °F |
| Mold Temperature | 104 to 158 | °F |

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Injection Notes

Zone 4 Temperature: 210 to 230°C

Feed Temperature: 20 to 50°C

Notes

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