



Celstran® PP-GF30-03 Natural

Celanese Corporation - Polypropylene

Tuesday, November 5, 2019

General Information

Product Description

30% long glass fiber reinforced, chemically coupled, heat stabilized, Polypropylene Natural

General

| | | | |
|------------------------|---|----------|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East | • Europe | • North America |
| Filler / Reinforcement | • Asia Pacific • Latin America | | |
| Additive | • Heat Stabilizer | | |
| Features | • Chemically Coupled • Heat Stabilized | | |
| Appearance | • Natural Color | | |

ASTM & ISO Properties ¹

| | Nominal Value | Unit | Test Method |
|---------------------------------------|---------------|-----------------------|----------------|
| Physical | | | |
| Density | 1.12 | g/cm ³ | ISO 1183 |
| Mechanical | | | |
| Tensile Modulus | 1.00E+6 | psi | ISO 527-2/1A/1 |
| Tensile Stress (Break) | 18900 | psi | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 2.6 | % | ISO 527-2/1A/5 |
| Flexural Modulus (73°F) | 957000 | psi | ISO 178 |
| Flexural Stress (73°F) | 30000 | psi | ISO 178 |
| Impact | | | |
| Charpy Notched Impact Strength (73°F) | 18 | ft-lb/in ² | ISO 179/1eA |

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 | 428 to 446 | °F |
| Nozzle Temperature | 446 to 464 | °F |
| Processing (Melt) Temp | 446 to 464 | °F |
| Mold Temperature | 104 to 158 | °F |

Injection Notes

Feed Temperature: 20 to 50°C
Zone 4 Temperature: 230 to 240°C

Notes

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

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