

Celstran® PEHD-GF60-01

Celanese Corporation - High Density Polyethylene

Sunday, November 17, 2019

General Information

Product Description

58% long strand glass fiber reinforced high density polyethylene

General

| | |
|------------------------|--|
| Material Status | • Commercial: Active |
| Availability | • Asia Pacific • Europe • North America |
| Filler / Reinforcement | • Long Glass Fiber, 58% Filler by Weight |
| RoHS Compliance | • Contact Manufacturer |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---------------------------------------|---------------|-------------------|----------------|
| Density | 1.50 | g/cm ³ | ISO 1183 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 10500 | MPa | ISO 527-2/1A |
| Tensile Stress (Break) | 91.0 | MPa | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 1.4 | % | ISO 527-2/1A/5 |
| Flexural Modulus (23°C) | 11700 | MPa | ISO 178 |
| Flexural Stress (23°C) | 160 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 30 | kJ/m ² | ISO 179/1eA |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 90 to 100 | °C |
| Drying Time | 2.0 | hr |
| Suggested Max Moisture | 0.20 | % |
| Rear Temperature | 200 to 210 | °C |
| Middle Temperature | 210 to 220 | °C |
| Front Temperature | 220 to 230 | °C |
| Nozzle Temperature | 230 to 240 | °C |
| Processing (Melt) Temp | 230 to 240 | °C |
| Mold Temperature | 40 to 70 | °C |

Injection Notes

Feeding zone temperature: 20 to 50°C
Zone4 temperature: 230 to 240°C

Notes

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