



Celanex® JKX-1125

Celanese Corporation - Polybutylene Terephthalate

Tuesday, January 21, 2020

General Information

Product Description

20% glass reinforced polybutylene terephthalate (PBT) with improved warp resistance and processability.

General

| | | | |
|------------------------|-------------------------------------|-----------------|------------------|
| Material Status | • Experimental: Active | | |
| Availability | • Asia Pacific | • Latin America | |
| | • Europe | • North America | |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight | | |
| Features | • Good Processability | • Low Warpage | • Warp Resistant |

ASTM & ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|----------------|
| Density | 1.37 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) | 18 | g/10 min | ISO 1133 |
| Molding Shrinkage | | | ISO 294-4 |
| Across Flow | 1.0 to 1.4 | % | |
| Flow | 0.50 to 0.90 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 7500 | MPa | ISO 527-2/1A |
| Tensile Stress (Break) | 100 | MPa | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 1.9 | % | ISO 527-2/1A/5 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact Strength (23°C) | 9.0 | kJ/m ² | ISO 180/1A |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 215 | °C | ISO 75-2/B |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 180 | °C | ISO 75-2/A |

Notes

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