



WPP PP PPC3TF1.3-Natural

Washington Penn Plastic Co. Inc. - Polypropylene Copolymer

Wednesday, October 9, 2019

General Information

General

| | | | |
|------------------------|---|--|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Filler / Reinforcement | • Talc, 13% Filler by Weight | | |
| Features | • Copolymer • Good Dimensional Stability | • Good Impact Resistance • Good Stiffness | |
| Uses | • Automotive Applications | • Automotive Interior Trim | |
| Appearance | • Colors Available | • Natural Color | |
| Processing Method | • Injection Molding | | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|--------------|
| Density / Specific Gravity | 0.990 | g/cm ³ | ASTM D792 |
| Density | 0.990 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 16 | g/10 min | ASTM D1238 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 16 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield) | 35.0 | MPa | ASTM D638 |
| Tensile Stress (Yield) | 36.0 | MPa | ISO 527-2/50 |
| Flexural Modulus - Tangent ³ | 2100 | MPa | ASTM D790 |
| Flexural Modulus ⁴ | 2200 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 29 | J/m | ASTM D256 |
| Notched Izod Impact Strength | | | ISO 180 |
| -40°C | 2.0 | kJ/m ² | |
| -15°C | 2.1 | kJ/m ² | |
| 23°C | 3.0 | kJ/m ² | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 127 | °C | |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 119 | °C | ISO 75-2/B |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 72.0 | °C | ISO 75-2/A |

Additional Information

Tested at 23 ± 2°C (73.4 ± 3.6°F) and 50 ± 5% relative humidity unless otherwise noted

Notes

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

² 50 mm/min

³ 1.3 mm/min

⁴ 2.0 mm/min