

DuPont Performance Polymers Sorona® 3015GV BK001 Polytrimethylene Terephthalate (PTT)

Category : Polymer , Thermoplastic , Polyester, TP , Polytrimethylene Terephthalate (PTT)

Material Notes:

15% Glass Reinforced Renewably Sourced Polytrimethylene Terephthalate Sorona 3015GV BK001 is a 15% glass reinforced black PTT resin containing 31% renewably sourced ingredients by weight (37% based on polymer only) with low warpage and superior strength. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Sorona-3015GV-BK001-Polytrimethylene-Terephthalate-PTT.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 1.40 g/cc | 0.0506 lb/in ³ | ISO 1183 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------------------|----------------------------|--------------|
| Tensile Strength at Break | 110 MPa | 16000 psi | ISO 527-1/-2 |
| Elongation at Break | 2.3 % | 2.3 % | ISO 527-1/-2 |
| Tensile Modulus | 6.20 GPa | 899 ksi | ISO 527-1/-2 |
| Flexural Strength | 170 MPa | 24700 psi | ISO 178 |
| Flexural Modulus | 5.70 GPa | 827 ksi | ISO 178 |
| Charpy Impact Unnotched | 2.50 J/cm ² | 11.9 ft-lb/in ² | ISO 179/1eU |
| Charpy Impact, Notched | 0.500 J/cm ² | 2.38 ft-lb/in ² | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|---------------------|----------------------|--------------------------|
| Melting Point | 227 °C | 441 °F | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 215 °C | 419 °F | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 185 °C | 365 °F | ISO 75-1/-2 |
| Flammability, UL94 | HB | HB | IEC 60695-11-10 |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | HB | HB | IEC 60695-11-10 |
| | @Thickness 0.800 mm | @Thickness 0.0315 in | |
| Oxygen Index | 21 % | 21 % | ISO 4589-1/-2 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------------|-----------------------|-------------|
| Volume Resistivity | >= 1.00e+15 ohm-cm | >= 1.00e+15 ohm-cm | IEC 60093 |
| Surface Resistance | 3.00e+14 ohm | 3.00e+14 ohm | IEC 60093 |
| Dielectric Constant | 3.8 | 3.8 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Dielectric Strength | 4.0 | 4.0 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 36.0 kV/mm | 914 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.0015 | 0.0015 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Comparative Tracking Index | 0.017 | 0.017 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Comparative Tracking Index | 250 V | 250 V | IEC 60112 |

| Descriptive Properties | Value | Comments |
|------------------------|---------------------------|-----------|
| Part Marking Code | >PTT-GF15< | ISO 11469 |
| Regional Availability | Asia Pacific | |
| | Europe | |
| | Global | |
| | Near East/Africa | |
| | North America | |
| | South and Central America | |
| Resin Identification | PTT-GF15 | |

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