

Teijin Panlite® GS-3430 Friction and Abrasion Resistant, Glass Fiber Reinforced Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

Material Notes:

GF 30% reinforced grade, meeting UL 94 V-2. It is compounded with fluorine powder to improve friction and abrasion resistance, maintaining excellent characteristics of polycarbonate resin. Applications: Mechanical, electric and electronic components that need abrasion and friction resistance. Information provided by Teijin Chemicals Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teijin-Panlite-GS-3430-Friction-and-Abrasion-Resistant-Glass-Fiber-Reinforced-Polycarbonate-Resin.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--|---|-----------------------------|
| Density | 1.52 g/cc | 0.0549 lb/in ³ | ISO 1183 |
| Water Absorption | 0.10 % | 0.10 % | in water, 23°C, 24h; ISO 62 |
| Linear Mold Shrinkage | 0.00020 - 0.0020 cm/cm @Thickness 4.00 mm | 0.00020 - 0.0020 in/in @Thickness 0.157 in | |
| Linear Mold Shrinkage, Transverse | 0.0030 - 0.0050 cm/cm @Thickness 4.00 mm | 0.0030 - 0.0050 in/in @Thickness 0.157 in | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------------------|----------------------------|-------------------|
| Tensile Strength at Break | 100 MPa | 14500 psi | 50mm/min; ISO 527 |
| Elongation at Break | 2.5 % | 2.5 % | 50mm/min; ISO 527 |
| Tensile Modulus | 8.00 GPa | 1160 ksi | 1mm/min; ISO 527 |
| Flexural Strength | 155 MPa | 22500 psi | 2mm/min; ISO 178 |
| Flexural Modulus | 7.30 GPa | 1060 ksi | 2mm/min; ISO 178 |
| Charpy Impact Unnotched | 4.00 J/cm ² | 19.0 ft-lb/in ² | ISO 179 |
| Charpy Impact, Notched | 1.20 J/cm ² | 5.71 ft-lb/in ² | ISO 179 |

| Thermal Properties | Metric | English | Comments |
|--------------------|-----------------------|-----------------------|-----------|
| CTE, linear | 20.0 Åµm/m-Å°C | 11.1 Åµin/in-Å°F | ISO 11359 |
| | @Temperature 20.0 Å°C | @Temperature 68.0 Å°F | |
| | 60.0 Åµm/m-Å°C | 33.3 Åµin/in-Å°F | |

| CTE, linear, Transverse to Flow Thermal Properties | Metric @Temperature 20.0 Â°C | English @Temperature 68.0 Â°F | ISO 11359 Comments |
|---|------------------------------------|----------------------------------|------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 150 Â°C | 302 Â°F | ISO 75 |
| Deflection Temperature at 1.8 MPa (264 psi) | 148 Â°C | 298 Â°F | ISO 75 |
| Vicat Softening Point | 152 Â°C | 306 Â°F | 50Â°C/hr, 50N; ISO 306 |
| UL RTI, Electrical | 130 Â°C @Thickness 1.47 mm | 266 Â°F @Thickness 0.0579 in | UL 746B |
| UL RTI, Mechanical with Impact | 120 Â°C @Thickness 1.47 mm | 248 Â°F @Thickness 0.0579 in | UL 746B |
| UL RTI, Mechanical without Impact | 130 Â°C @Thickness 1.47 mm | 266 Â°F @Thickness 0.0579 in | UL 746B |
| Flammability, UL94 | V-2 @Thickness 0.380 mm | V-2 @Thickness 0.0150 in | |
| | V-1 @Thickness 3.00 mm | V-1 @Thickness 0.118 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|------------------------------|------------------------------|-----------|
| Volume Resistivity | >= 1.00e+13 ohm-cm | >= 1.00e+13 ohm-cm | IEC 60093 |
| Surface Resistance | >= 1.00e+15 ohm | >= 1.00e+15 ohm | IEC 60093 |
| Dielectric Constant | 3.5 @Frequency 100 Hz | 3.5 @Frequency 100 Hz | IEC 60250 |
| | 3.5 @Frequency 1e+6 Hz | 3.5 @Frequency 1e+6 Hz | IEC 60250 |
| Dielectric Strength | 35.0 kV/mm | 889 kV/in | IEC 60243 |
| Dissipation Factor | 0.0010 @Frequency 100 Hz | 0.0010 @Frequency 100 Hz | IEC 60250 |
| | 0.0090 @Frequency 1e+6 Hz | 0.0090 @Frequency 1e+6 Hz | IEC 60250 |
| Comparative Tracking Index | 175 V | 175 V | IEC 60112 |

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