

Lanxess Pocan® BF 4215 000000 PBT, 12% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled

Material Notes:

PBT, 12% glass fibers, injection molding, flame retardant

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-BF-4215-000000-PBT-12-Glass-Fiber.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|--|
| Density | 1.53 g/cc | 0.0553 lb/in ³ | ISO 1183 |
| Water Absorption | 0.30 % | 0.30 % | Test Sim. to ISO 62 |
| Moisture Absorption at Equilibrium | 0.10 % | 0.10 % | 23°C/50% R.H.; Test Sim. to ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0080 cm/cm | 0.0080 in/in | ISO 294-4, 2577 |
| Linear Mold Shrinkage, Transverse | 0.0011 cm/cm | 0.0011 in/in | ISO 294-4, 2577 |
| Melt Flow | 57 g/10 min @Load 2.16 kg, Temperature 260 °C | 57 g/10 min @Load 4.76 lb, Temperature 500 °F | Estimated using room temperature density; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------------|---|---|--------------|
| Tensile Strength at Break | 100 MPa | 14500 psi | ISO 527-1/-2 |
| Elongation at Break | 2.5 % | 2.5 % | ISO 527-1/-2 |
| Tensile Modulus | 5.70 GPa | 827 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | 3.00 J/cm ² @Temperature -30.0 °C | 14.3 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eU |
| | 3.00 J/cm ² @Temperature 23.0 °C | 14.3 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eU |
| Charpy Impact, Notched | <= 1.00 J/cm ² @Temperature -30.0 °C | <= 4.76 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eA |
| | <= 1.00 J/cm ² @Temperature 23.0 °C | <= 4.76 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eA |
| Tensile Creep Modulus, 1 hour | 5500 MPa | 798000 psi | ISO 899-1 |

| Tensile Creep Modulus, 1000 hours Mechanical Properties | 5000 MPa Metric | 725000 psi English | ISO 899-1 Comments |
|--|--------------------|-----------------------|-----------------------|
|--|--------------------|-----------------------|-----------------------|

| Thermal Properties | Metric | English | Comments |
|--|--|--|---|
| CTE, linear, Parallel to Flow | 40.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 22.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 100 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 55.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-1/-2 |
| Melting Point | 225 $\text{Å}^\circ\text{C}$ | 437 $\text{Å}^\circ\text{F}$ | 10 $\text{Å}^\circ\text{C}/\text{min}$; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 205 $\text{Å}^\circ\text{C}$ | 401 $\text{Å}^\circ\text{F}$ | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 185 $\text{Å}^\circ\text{C}$ | 365 $\text{Å}^\circ\text{F}$ | ISO 75-1/-2 |
| Vicat Softening Point | 205 $\text{Å}^\circ\text{C}$ | 401 $\text{Å}^\circ\text{F}$ | 50 $\text{Å}^\circ\text{C}/\text{h}$ 50N; ISO 306 |
| Flammability, UL94 | V-0 | V-0 | IEC 60695-11-10 |
| | V-0 @Thickness 0.750 mm | V-0 @Thickness 0.0295 in | IEC 60695-11-10 |
| Oxygen Index | 32 % | 32 % | ISO 4589-1/-2 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-------------------------------|-------------------------------|-------------|
| Volume Resistivity | $\geq 1.00\text{e}+13$ ohm-cm | $\geq 1.00\text{e}+13$ ohm-cm | IEC 60093 |
| Surface Resistance | $\geq 1.00\text{e}+15$ ohm | $\geq 1.00\text{e}+15$ ohm | IEC 60093 |
| Dielectric Constant | 3.4 | 3.4 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Dielectric Strength | 3.6 | 3.6 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 29.0 kV/mm | 737 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.0040 | 0.0040 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Comparative Tracking Index | 0.019 | 0.019 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Comparative Tracking Index | 200 V | 200 V | IEC 60112 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Melt Temperature Processing Properties | 260 Â°C Metric | 500 Â°F English | Injection Molding; ISO 294 Comments |
|---|-------------------|--------------------|--|
| Mold Temperature | 80.0 Â°C | 176 Â°F | Injection Molding; ISO 10724 |

| Descriptive Properties | Value | Comments |
|------------------------|--|----------|
| Additives | Flame retarding agent | |
| Features | Flame retardant | |
| Form | Pellets | |
| ISO Shortname | ISO 7792-1-PBT,GFHMR,09-060,GF12; ISO 1043-PBT GF FR(17) | |
| Processing | Injection molding | |
| Region | Asia Pacific | |
| | Europe | |
| | Near East/Africa | |
| | North America | |
| | South and Central America | |

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