

Lanxess Pocan® BF 4225 00000 PBT, 20% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

PBT, 20% glass fibers, injection molding, flame retardant

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-BF-4225-00000-PBT-20-Glass-Fiber.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|---|--|
| Density | 1.595 g/cc | 0.05762 lb/in ³ | ISO 1183 |
| Viscosity Test | 97 cm ³ /g | 97 cm ³ /g | Viscosity number; ISO 307, 1157, 1628 |
| Linear Mold Shrinkage, Flow | 0.0050 cm/cm | 0.0050 in/in | ISO 294-4, 2577 |
| Linear Mold Shrinkage, Transverse | 0.0011 cm/cm | 0.0011 in/in | ISO 294-4, 2577 |
| Melt Flow | 30 g/10 min @Load 2.16 kg, Temperature 260 °C | 30 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 | 120 MPa | 17400 psi | ISO 527-1/-2 |
| Elongation at Break | 2.4 % | 2.4 % | ISO 527-1/-2 |
| Tensile Modulus | 8.50 GPa | 1230 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | 4.00 J/cm ² @Temperature -30.0 °C | 19.0 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eU |
| | 4.00 J/cm ² @Temperature 23.0 °C | 19.0 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 |
| Puncture Energy | 1.80 J | 1.33 ft-lb | ISO 6603-2 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|---|
| CTE, linear, Parallel to Flow | 30.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 16.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 120 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 66.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | 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) | 220 $\text{Å}^\circ\text{C}$ | 428 $\text{Å}^\circ\text{F}$ | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 $\text{Å}^\circ\text{C}$ | 410 $\text{Å}^\circ\text{F}$ | ISO 75-1/-2 |
| Deflection Temperature at 8.0 MPa | 126 $\text{Å}^\circ\text{C}$ | 259 $\text{Å}^\circ\text{F}$ | 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 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-------------|
| Dielectric Constant | 3.6 | 3.6 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| | 3.8 | 3.8 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 29.0 kV/mm | 737 kV/in | IEC 60243-1 |

| Processing Properties | Metric | English | Comments |
|-----------------------|-------------------------------|------------------------------|------------------------------|
| Melt Temperature | 260 $\text{Å}^\circ\text{C}$ | 500 $\text{Å}^\circ\text{F}$ | Injection Molding; ISO 294 |
| Mold Temperature | 80.0 $\text{Å}^\circ\text{C}$ | 176 $\text{Å}^\circ\text{F}$ | Injection Molding; ISO 10724 |

| Descriptive Properties | Value | Comments |
|------------------------|--|----------|
| Additives | Flame retarding agent | |
| | Lubricants | |
| Features | Flame retardant | |
| Form | Pellets | |
| ISO Shortname | ISO 7792-1-PBT,GFHMR,07-080,GF20; ISO 1043-PBT GF FR(17) | |
| Processing | Injection molding | |
| Region | Asia Pacific | |
| | Europe | |

| Descriptive Properties | Near East/Africa Value | Comments |
|------------------------|---------------------------|----------|
| | North America | |
| | South and Central America | |

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