

Lanxess Pocan® T 7391 POS151 000000 PBT + PET, 45% Glass Fiber (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

Material Notes:

PBT+PET, 45% glass fibers, injection molding, improved surface finish, increased temperature peak load, UV-stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-T-7391-POS151-000000-PBT-PET-45-Glass-Fiber-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|---|---|--|
| Density | 1.68 g/cc | 0.0607 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 |
| Viscosity Test | 80 cm ³ /g | 80 cm ³ /g | Viscosity number; ISO 307, 1157, 1628 |
| Melt Flow | 42 g/10 min @Load 5.00 kg, Temperature 260 °C | 42 g/10 min @Load 11.0 lb, Temperature 500 °F | Calculated from MVR using melt density; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------------------|---|---|--------------|
| Tensile Strength at Break | 165 MPa | 23900 psi | ISO 527-1/-2 |
| Elongation at Break | 2.0 % | 2.0 % | ISO 527-1/-2 |
| Tensile Modulus | 16.5 GPa | 2390 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | 7.00 J/cm ² @Temperature -30.0 °C | 33.3 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eU |
| | 7.00 J/cm ² @Temperature 23.0 °C | 33.3 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eU |
| Charpy Impact, Notched | 1.10 J/cm ² @Temperature -30.0 °C | 5.23 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eA |
| | 1.20 J/cm ² @Temperature 23.0 °C | 5.71 ft-lb/in ² @Temperature 73.4 °F | ISO 179/1eA |
| Tensile Creep Modulus, 1 hour | 16500 MPa | 2.39e+6 psi | ISO 899-1 |
| Tensile Creep Modulus, 1000 hours | 15000 MPa | 2.18e+6 psi | ISO 899-1 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|---|
| CTE, linear, Parallel to Flow | 20.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ | 11.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ | ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 50.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ | 27.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ | ISO 11359-1/-2 |
| Melting Point | 225 - 250 $^{\circ}\text{C}$ | 437 - 482 $^{\circ}\text{F}$ | 10 $^{\circ}\text{C}/\text{min}$; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 225 $^{\circ}\text{C}$ | 437 $^{\circ}\text{F}$ | ISO 75-1/-2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 $^{\circ}\text{C}$ | 410 $^{\circ}\text{F}$ | ISO 75-1/-2 |
| Deflection Temperature at 8.0 MPa | 150 $^{\circ}\text{C}$ | 302 $^{\circ}\text{F}$ | ISO 75-1/-2 |
| Vicat Softening Point | 210 $^{\circ}\text{C}$ | 410 $^{\circ}\text{F}$ | 50 $^{\circ}\text{C}/\text{h}$ 50N; ISO 306 |
| Flammability, UL94 | HB | HB | IEC 60695-11-10 |
| | @Thickness 0.800 mm | @Thickness 0.0315 in | |
| | HB | HB | IEC 60695-11-10 |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| Oxygen Index | 21 % | 21 % | ISO 4589-1/-2 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-------------------------------|-------------------------------|-------------|
| Volume Resistivity | $\geq 1.00\text{e}+15$ ohm-cm | $\geq 1.00\text{e}+15$ ohm-cm | IEC 60093 |
| Surface Resistance | $\geq 1.00\text{e}+15$ ohm | $\geq 1.00\text{e}+15$ ohm | IEC 60093 |
| Dielectric Constant | 4.2 | 4.2 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| | 4.3 | 4.3 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 28.0 kV/mm | 711 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.0020 | 0.0020 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| | 0.014 | 0.014 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Comparative Tracking Index | 275 V | 275 V | IEC 60112 |

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

| Processing Properties | Metric | English | Comments |
|-----------------------|---------|---------|------------------------------|
| Mold Temperature | 90.0 °C | 194 °F | Injection Molding; ISO 10724 |

| Descriptive Properties | Value | Comments |
|------------------------|---------------------------------------|----------|
| Additives | Release agent | |
| Features | U.V. stabilized or stable to weather | |
| Form | Pellets | |
| ISO Shortname | ISO 7792-1 -PBT+PET,GHLMR,09-160,GF45 | |
| Processing | Injection molding | |
| Region | Asia Pacific | |
| | Europe | |
| | Near East/Africa | |
| | North America | |
| | South and Central America | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China