

## Lanxess Pocan® B 3215 901510 PBT, 10% Glass Fiber

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

### Material Notes:

PBT, 10% glass fibers, injection molding

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Pocan-B-3215-901510-PBT-10-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Pocan-B-3215-901510-PBT-10-Glass-Fiber.php)

| Physical Properties                | Metric  | English   | Comments   |
|------------------------------------|---|---|--|
| Density                            | 1.38 g/cc   | 0.0499 lb/in <sup>3</sup>                           | ISO 1183   |
| Water Absorption                   | 0.40 %  | 0.40 %  | Test Sim. to ISO 62                              |
| Moisture Absorption at Equilibrium | 0.20 %  | 0.20 %  | 23°C/50% R.H.; Test Sim. to ISO 62               |
| Linear Mold Shrinkage, Flow        | 0.0010 cm/cm  | 0.0010 in/in  | ISO 294-4, 2577                                  |
| Linear Mold Shrinkage, Transverse  | 0.0012 cm/cm  | 0.0012 in/in  | ISO 294-4, 2577                                  |
| Melt Flow                          | 33 g/10 min<br>@Load 2.16 kg,<br>Temperature 260 °C | 33 g/10 min<br>@Load 4.76 lb,<br>Temperature 500 °F | Calculated from MVR using melt density; ISO 1133 |

| Mechanical Properties     | Metric  | English   | Comments     |
|---------------------------|---|---|--------------|
| Tensile Strength at Break | 90.0 MPa  | 13100 psi   | ISO 527-1/-2 |
| Elongation at Break       | 3.5 %   | 3.5 %   | ISO 527-1/-2 |
| Tensile Modulus           | 4.90 GPa  | 711 ksi   | ISO 527-1/-2 |
| Charpy Impact Unnotched   | 2.00 J/cm <sup>2</sup><br>@Temperature -30.0<br>°C    | 9.52 ft-lb/in <sup>2</sup><br>@Temperature -22.0<br>°F    | ISO 179/1eU  |
|                           | 2.00 J/cm <sup>2</sup><br>@Temperature 23.0<br>°C     | 9.52 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F        | ISO 179/1eU  |
| Charpy Impact, Notched    | <= 1.00 J/cm <sup>2</sup><br>@Temperature -30.0<br>°C | <= 4.76 ft-lb/in <sup>2</sup><br>@Temperature -22.0<br>°F | ISO 179/1eA  |
|                           | <= 1.00 J/cm <sup>2</sup><br>@Temperature 23.0<br>°C  | <= 4.76 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F     | ISO 179/1eA  |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Thermal Properties to Flow                  | Metric $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | English $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | Comments 1/-2   |
|---|--|---|---|
| CTE, linear, Transverse to Flow             | 130 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$    | 72.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$    | ISO 11359-1/-2  |
| Melting Point                               | 222 $\text{Å}^\circ\text{C}$                             | 432 $\text{Å}^\circ\text{F}$                                | 10 $\text{Å}^\circ\text{C}/\text{min}$ ; ISO 11357-1/-3 |
| Deflection Temperature at 0.46 MPa (66 psi) | 215 $\text{Å}^\circ\text{C}$                             | 419 $\text{Å}^\circ\text{F}$                                | ISO 75-1/-2   |
| Deflection Temperature at 1.8 MPa (264 psi) | 190 $\text{Å}^\circ\text{C}$                             | 374 $\text{Å}^\circ\text{F}$                                | ISO 75-1/-2   |
| Deflection Temperature at 8.0 MPa           | 55.0 $\text{Å}^\circ\text{C}$                            | 131 $\text{Å}^\circ\text{F}$                                | 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       |

| 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              | Release agent             |          |
| Form                   | Pellets                   |          |
| Processing             | Injection molding         |          |
| Region                 | Asia Pacific              |          |
|                        | Europe                    |          |
|                        | Near East/Africa          |          |
|                        | North America             |          |
|                        | South and Central America |          |

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