

## Radici Raditer® B N 100 T Polybutylene Terephthalate

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

### Material Notes:

Raditer® B N 100T is a high impact modified thermoplastic polyester based on polybutylene terephthalate. The PBT compounds combine excellent thermal, mechanical, electrical and chemical properties with very good dimensional stability. Suggestions for application:

Technical items that require good impact strength, stiffness and low warpage. Information provided by Radici group.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Radici-Raditer-B-N-100-T-Polybutylene-Terephthalate.php](http://www.lookpolymers.com/polymer_Radici-Raditer-B-N-100-T-Polybutylene-Terephthalate.php)

| Physical Properties                | Metric    | English   | Comments |
|------------------------------------|-----------|-----------|----------|
| Specific Gravity                   | 1.28 g/cc | 1.28 g/cc | ISO 1183 |
| Moisture Absorption at Equilibrium | 0.18 %    | 0.18 %    | ISO 62   |

| Mechanical Properties   | Metric                 | English                    | Comments     |
|-------------------------|------------------------|----------------------------|--------------|
| Elongation at Break     | 40 %                   | 40 %                       | ISO 527-2/1A |
| Tensile Modulus         | 2.00 GPa               | 290 ksi                    | ISO 527-2/1A |
| Flexural Strength       | 65.0 MPa               | 9430 psi                   | ISO 178/1A   |
| Flexural Modulus        | 1.90 GPa               | 276 ksi                    | ISO 178/1A   |
| Charpy Impact Unnotched | NB                     | NB                         | ISO 179 eU   |
| Charpy Impact, Notched  | 1.00 J/cm <sup>2</sup> | 4.76 ft-lb/in <sup>2</sup> | ISO 179/1eA  |

| Thermal Properties                          | Metric                       | English                         | Comments            |
|---|------------------------------|---------------------------------|---------------------|
| Melting Point                               | 225 °C                       | 437 °F                          | ISO 11357-1-3       |
| Deflection Temperature at 0.46 MPa (66 psi) | 160 °C                       | 320 °F                          | ISO 75-2/Af         |
| Deflection Temperature at 1.8 MPa (264 psi) | 60.0 °C                      | 140 °F                          | ISO 75-2/Af         |
| Vicat Softening Point                       | 65.0 °C<br>@Load 5.10 kg     | 149 °F<br>@Load 11.2 lb         | 50°C/h; ISO 306/B50 |
| Flammability, UL94                          | HB<br>@Thickness 0.800 mm    | HB<br>@Thickness 0.0315 in      |                     |
| Glow Wire Test                              | 650 °C<br>@Thickness 2.00 mm | 1200 °F<br>@Thickness 0.0787 in | CEI 695-2-1/2       |

## **Contact Songhan Plastic Technology Co.,Ltd.**

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