

**Techmer ES Plastiblend® PA6 GF20 RM-B L NAT Nylon 6**

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

**Material Notes:**

Availability: North America  
 Forms: Pellets  
 Filler/Reinforcement: Glass Fiber Reinforcement, 20% Filler by Weight  
 Additive: Lubricant  
 Features: Low Moisture Absorption and Lubricated  
 Appearance: Black  
 TPCI# 9772102  
 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Plastiblend-PA6-GF20-RM-B-L-NAT-Nylon-6.php](http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PA6-GF20-RM-B-L-NAT-Nylon-6.php)

| Physical Properties         | Metric                                      | English                                      | Comments  |
|-----------------------------|---|--|-----------|
| Density                     | 1.28 g/cc                                   | 0.0462 lb/in <sup>3</sup>                    | ASTM D792 |
| Water Absorption            | 0.90 %<br>@Time 86400 sec                   | 0.90 %<br>@Time 24.0 hour                    | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0040 - 0.0070 cm/cm<br>@Thickness 3.17 mm | 0.0040 - 0.0070 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                          | English                              | Comments  |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 115                             | 115                                  | ASTM D785 |
| Tensile Strength, Yield | 140 MPa                         | 20300 psi                            | ASTM D638 |
| Elongation at Break     | 3.5 %                           | 3.5 %                                | ASTM D638 |
| Flexural Strength       | 225 MPa                         | 32700 psi                            | ASTM D790 |
| Flexural Modulus        | 6.89 GPa                        | 1000 ksi                             | ASTM D790 |
| Izod Impact, Notched    | 1.33 J/cm<br>@Thickness 3.17 mm | 2.50 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric         | English          | Comments              |
|---|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 37.8 Åµm/m-Å°C | 21.0 Åµin/in-Å°F | ASTM D696             |
| Deflection Temperature at 1.8 MPa (264 psi) | 191 Å°C        | 375 Å°F          | Unannealed; ASTM D648 |

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