

**Techmer ES Luriblend® PA6/6 CF20 TL15 BK 20% Carbon Filled**

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Carbon Fiber/PTFE Filled

**Material Notes:**

Availability: North America  
 Forms: Pellets  
 Filler/Reinforcement: Carbon Fiber, 20% Filler by Weight  
 Additive: PTFE Lubricant(15%)  
 Features: Lubricated, Good Wear Resistance and Low Friction  
 Appearance: Black  
 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Luriblend-PA66-CF20-TL15-BK-20-Carbon-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA66-CF20-TL15-BK-20-Carbon-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.45 % @Time 86400 sec	0.45 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	179 MPa	26000 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	255 MPa	37000 psi	ASTM D790
Flexural Modulus	12.8 GPa	1850 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 3.17 mm	1.50 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	254 °C	490 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	252 °C	485 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 - 1000 ohm-cm	10 - 1000 ohm-cm	ASTM D257

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