

## Techmer ES Plastiblend<sup>®</sup> PA6 L N BK002 Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Nucleated

### Material Notes:

Availability: North America Forms: Pellets Additive: Nucleating Agent and Lubricant(4500 ppm) Features: Fast Molding Cycle, Good Processability, Nucleated and Lubricated Appearance: Black TPCI# 1327102 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Plastiblend-PA6-L-N-BK002-Nylon-6.php](http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PA6-L-N-BK002-Nylon-6.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ASTM D792
Water Absorption	2.8 % @Time 86400 sec	2.8 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.014 cm/cm @Thickness 3.17 mm	0.014 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	90.3 MPa	13100 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Flexural Strength	115 MPa	16700 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	0.454 J/cm @Thickness 3.17 mm	0.850 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	82.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	46.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	178 $\text{Å}^\circ\text{C}$	352 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.7 $\text{Å}^\circ\text{C}$	170 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Strength	18.1 kV/mm	460 kV/in	Method A (Short-Time); ASTM D149

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

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