

## Techmer ES Luriblend® PA6 CF30 TS15 BK 30% Carbon Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Carbon Fiber/PTFE Reinforced

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Carbon Fiber, 30% Filler by Weight  
Additive: PTFE Lubricant (15%) and Silicone Lubricant  
Features: Lubricated  
Appearance: Natural Color  
Processing Method: Extrusion  
Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Luriblend-PA6-CF30-TS15-BK-30-Carbon-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Luriblend-PA6-CF30-TS15-BK-30-Carbon-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.88 %	0.88 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	157 MPa	22700 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	249 MPa	36100 psi	ASTM D790
Flexural Modulus	11.5 GPa	1670 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Coefficient of Friction, Dynamic	0.10	0.10	ASTM D1894
Coefficient of Friction, Static	0.090	0.090	ASTM D1894
K (wear) Factor	16.1 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	8.00 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	
Limiting Pressure Velocity	0.771 MPa-m/sec	22000 psi-ft/min	1000 fpm
	1.05 MPa-m/sec	30000 psi-ft/min	10 fpm
	1.54 MPa-m/sec	44000 psi-ft/min	100 fpm

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	218 $\text{Å}^\circ\text{C}$	425 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 $\text{Å}^\circ\text{C}$	420 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\leq 1.00\text{e}+14$ ohm-cm	$\leq 1.00\text{e}+14$ ohm-cm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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