

Techmer ES HiFill FR[®] PA6 FR IM 004

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade , Nylon 6 , Unreinforced, Flame Retardant

Material Notes:

Availability: North America Forms: Pellets Additive: Impact Modifier Features: Flame Retardant and Impact Modified Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA6-FR-IM-004.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------------------|------------------------------------|-----------|
| Density | 1.28 g/cc | 0.0462 lb/in ³ | ASTM D792 |
| Water Absorption | 0.060 % @Time 86400 sec | 0.060 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.015 cm/cm @Thickness 3.17 mm | 0.015 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R | 97 | 97 | ASTM D785 |
| Tensile Strength, Yield | 39.3 MPa | 5700 psi | ASTM D638 |
| Elongation at Break | 60 % | 60 % | ASTM D638 |
| Flexural Strength | 56.5 MPa | 8200 psi | ASTM D790 |
| Flexural Modulus | 1.72 GPa | 250 ksi | ASTM D790 |
| Izod Impact, Notched | 1.60 J/cm @Thickness 3.17 mm | 3.00 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|-----------------------|
| CTE, linear, Parallel to Flow | 59.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 33.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 62.8 $\text{Å}^\circ\text{C}$ | 145 $\text{Å}^\circ\text{F}$ | Unannealed; ASTM D648 |
| Flammability, UL94 | V-0 | V-0 | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | ASTM D257 |
| Surface Resistance | 1.00e+12 ohm | 1.00e+12 ohm | ASTM D257 |

| Dielectric Strength Electrical Properties | 20.9 kV/mm Metric | 530 kV/in English | Method A (Short-Time); ASTM D149 Comments |
|--|----------------------|----------------------|--|
|--|----------------------|----------------------|--|

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China