

Techmer ES Elastoblend® PA6/6 IM5 BK Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Availability: North America Forms: Pellets Additive: Heat Stabilizer, Lubricant and Impact Modifier Features: Heat Stabilized, Lubricant and Impact Modified Processing Method: Injection Molding Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PA66-IM5-BK-Nylon-66.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------------------|------------------------------------|-----------|
| Density | 1.09 g/cc | 0.0394 lb/in ³ | ASTM D792 |
| Water Absorption | 1.8 % @Time 86400 sec | 1.8 % @Time 24.0 hour | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.016 cm/cm @Thickness 3.17 mm | 0.016 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------------------------------------------------------|----------------------------------------------------------------|-----------|
| Hardness, Rockwell R | 111 | 111 | ASTM D785 |
| Tensile Strength | 60.7 MPa | 8800 psi | ASTM D638 |
| Elongation at Yield | 50 % | 50 % | ASTM D638 |
| Flexural Yield Strength | 82.7 MPa | 12000 psi | ASTM D790 |
| Flexural Modulus | 2.65 GPa | 385 ksi | ASTM D790 |
| Izod Impact, Notched | 1.33 J/cm @Thickness 3.17 mm, Temperature -40.0 Â°C | 2.50 ft-lb/in @Thickness 0.125 in, Temperature -40.0 Â°F | ASTM D256 |
| | 5.34 J/cm @Thickness 3.17 mm, Temperature 22.8 Â°C | 10.0 ft-lb/in @Thickness 0.125 in, Temperature 73.0 Â°F | ASTM D256 |
| Izod Impact, Unnotched | NB @Thickness 3.17 mm | NB @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---------------------------------------------|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow | 79.2 Âµm/m-Â°C | 44.0 Âµin/in-Â°F | ASTM D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 204 Â°C | 400 Â°F | Unannealed; ASTM D648 |

Deflection Temperature at 1.8 MPa
Thermal Properties
(104 psi)

Metric
60.0 °C

English
140 °F

Comments 1: ASTM D648

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