

Techmer ES Elastoblend® PA6/66 IM3 BK

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , Unreinforced

Material Notes:

Availability: North America Forms: Pellets Additive: Heat Stabilizer, Lubricant and Impact Modifier Features: Copolymer, 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-PA666-IM3-BK.php

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

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	2.50 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 Â°C	@Thickness 0.125 in, Temperature -40.0 Â°F	
Izod Impact, Notched	6.41 J/cm	12.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 22.8 Â°C	@Thickness 0.125 in, Temperature 73.0 Â°F	
Izod Impact, Unnotched	NB	NB	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

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

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