

Techmer ES HiFill® TPU 0445 A

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Availability: North America Forms: Pellets Features: High Density and High Specific Gravity Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-TPU-0445-A.php

Physical Properties	Metric	English	Comments
Density	4.45 g/cc	0.161 lb/in ³	ASTM D792
Water Absorption	0.025 % @Time 86400 sec	0.025 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 3.17 mm	0.0040 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	57	57	ASTM D785
Tensile Strength, Yield	24.1 MPa	3500 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Strength	26.9 MPa	3900 psi	ASTM D790
Flexural Modulus	0.241 GPa	35.0 ksi	ASTM D790
Izod Impact, Notched	2.14 J/cm @Thickness 3.17 mm	4.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	79.4 °C	175 °F	Unannealed; ASTM D648

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