

HiFill® TPU/E 0140

Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*

General

Material Status	• Commercial: Active
Availability	• North America
Features	• High Density
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.40		ASTM D792
Molding Shrinkage - Flow (0.125 in)	6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.025	%	ASTM D570
Mechanical			
Tensile Strength (Yield)	6500	psi	ASTM D638
Tensile Elongation (Break)	370	%	ASTM D638
Flexural Modulus	29000	psi	ASTM D790
Flexural Strength	4900	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	5.0	ft·lb/in	ASTM D256
Hardness			
Rockwell Hardness (R-Scale)	80		ASTM D785
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	118	°F	ASTM D648

