

HiFill® TPU 0445 A

 Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*
General Information
General

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

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	4.45		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.025	%	ASTM D570
Mechanical			
Tensile Strength (Yield)	3500	psi	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	35000	psi	ASTM D790
Flexural Strength	3900	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	4.0	ft·lb/in	ASTM D256
Hardness			
Rockwell Hardness (R-Scale)	57		ASTM D785
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	175	°F	ASTM D648

Notes
¹ Typical properties: these are not to be construed as specifications.
