

HiFill® TPU 1000

Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*

General Information

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	10.0		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	2000	psi	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	70000	psi	ASTM D790
Flexural Strength	1300	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	5.0	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	60		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	175	°F	ASTM D648

Notes

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

