

HiFill® TPU 1000

Thermoplastic Polyurethane Elastomer

Techmer Engineered Solutions

Message:

HiFill® TPU 1000 is a Thermoplastic Polyurethane Elastomer product. It can be processed by injection molding and is available in North America.

General Information			
Features	High Density		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	9.98	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	60		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	13.8	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	483	MPa	ASTM D790
Flexural Strength	8.96	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	79.4	°C	ASTM D648

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