

**HiFill® TPU 0780**

 Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*
**General Information**
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Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>High Density</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Colors Available</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	7.80		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.025	%	ASTM D570
<b>Mechanical</b>			
<b>Nominal Value Unit Test Method</b>			
Tensile Strength (Yield)	2500	psi	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	60000	psi	ASTM D790
Flexural Strength	1900	psi	ASTM D790
<b>Impact</b>			
<b>Nominal Value Unit Test Method</b>			
Notched Izod Impact (73°F, 0.125 in)	6.0	ft-lb/in	ASTM D256
<b>Hardness</b>			
<b>Nominal Value Unit Test Method</b>			
Rockwell Hardness (R-Scale)	57		ASTM D785
<b>Thermal</b>			
<b>Nominal Value Unit Test Method</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	175	°F	ASTM D648

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.
