

**HiFill® POM HO IM3 HF**

Techmer Polymer Modifiers - Acetal (POM) Homopolymer

**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>
Additive	<ul style="list-style-type: none"> <li>Impact Modifier</li> </ul>
Features	<ul style="list-style-type: none"> <li>Homopolymer</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	1.39		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.015	in/in	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
<b>Mechanical</b>			
<b>Nominal Value Unit Test Method</b>			
Tensile Strength (Yield)	7500	psi	ASTM D638
Tensile Elongation (Break)	80	%	ASTM D638
Flexural Modulus	320000	psi	ASTM D790
Flexural Strength	9800	psi	ASTM D790
<b>Impact</b>			
<b>Nominal Value Unit Test Method</b>			
Notched Izod Impact (73°F, 0.125 in)	2.3	ft·lb/in	ASTM D256
Unnotched Izod Impact	12	ft·lb/in	ASTM D4812
<b>Hardness</b>			
<b>Nominal Value Unit Test Method</b>			
Rockwell Hardness (R-Scale)	116		ASTM D785
<b>Thermal</b>			
<b>Nominal Value Unit Test Method</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	310	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	170	°F	ASTM D648
CLTE - Flow	6.0E-5	in/in/°F	ASTM D696
<b>Electrical</b>			
<b>Nominal Value Unit Test Method</b>			
Surface Resistivity	1.0E+14	ohms	ASTM D257

