

**HiFill® J-4/35 NATL**

 Techmer Polymer Modifiers - *Polyamide 612*
**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>
Appearance	<ul style="list-style-type: none"> <li>Natural Color</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

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

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm <sup>3</sup>	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20800	psi	ASTM D638
Tensile Stress (Break)	21700	psi	ISO 527-2
Tensile Elongation (Break)	2.4	%	ASTM D638
Tensile Strain (Break)	2.6	%	ISO 527-2
Flexural Modulus	1.28E+6	psi	ASTM D790
Flexural Modulus	1.36E+6	psi	ISO 178
Flexural Strength	29700	psi	ASTM D790
Flexural Stress	32700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.7	ft·lb/in	ASTM D256
Notched Izod Impact Strength (0.125 in)	5.1	ft·lb/in <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	391	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	384	°F	ISO 75-2/A

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	500 to 540	°F
Middle Temperature	510 to 550	°F
Front Temperature	520 to 560	°F
Nozzle Temperature	525 to 560	°F
Processing (Melt) Temp	500 to 555	°F
Mold Temperature	125 to 175	°F
Injection Rate		Slow
Back Pressure	25.0 to 75.0	psi
Screw Speed		Slow-Moderate

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