



**TRIVALENCE**

# TriEXO 21G30PEI (U,R)

**Polyether Imide**

Product Description	General Information
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<p>High heat resin, PEI. Glass Fiber Reinforced</p> <p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>-High Strength</li> <li>-High Temperature</li> <li>-Chemical resistant</li> <li>-Inherently Flame Retardant</li> </ul>	<p><b>ADDITIONAL FORMULAS</b></p> <ul style="list-style-type: none"> <li>-30% Glass Fiber Reinforced</li> <li>-Added Release "R"</li> <li>-Additional UV "U"</li> </ul> <p><b>COLOR</b></p> <ul style="list-style-type: none"> <li>-All</li> <li>-Opaque</li> </ul>
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**General**

<b>Typical Applications</b>	-Appliance, electrical, lawn & garden, automotive, medical, motor housings, oil/gas, military
<b>Processing Method</b>	-Injection/Extrusion
<b>Form(s)</b>	-Pellets
<b>Availability</b>	-North America, Latin America

ASTM / ISO Properties <sup>1</sup>		
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Physical	Nominal Value Unit	Test Method
Density	1.51 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (337°C/6.6kg)	5 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.5 %	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass	TVT Internal

Mechanical	Nominal Value Unit	Test Method
Tensile Strength, brk	25,000 psi	ASTM D638
Tensile Elongation	>2 %	ASTM D638
Flexural Modulus	1,350,000 psi	ASTM D790
Un-Notched Izod Impact	10 ft-lbs/in	ASTM D256
Rockwell Hardness	114 R-Scale	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	418 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	412 °F	ASTM D648
Vicat Softening Temperature	428 °F	ASTM D1525
RTI Elec	350 °F	UL 746
RTI IMP	337 °F	UL 746
RTI Str	350 °F	UL 746
CLTE - Flow	1.1E-5 in/in/°F	ASTM E831

Flammability	Nominal Value Unit	Test Method
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Recommended Processing Guidance		
Drying Temperature	295 to 305 °F	
Drying Time	4 to 6 Hours	
Suggested Max Moisture	0.02 %	
Processing Melt Temperature	690 to 780 °F	
Mold Temperature	270 to 350 °F	