



**TRIVALENCE**

# TriEXO 29G20PEI (U,R)

**Polyether Imide**

**General Information**

**Product Description**

High heat resin, PEI. Glass Fiber Reinforced

**FEATURES**

- High Strength
- High Temperature
- Chemical resistant
- Inherently Flame Retardant

**ADDITIONAL FORMULAS**

- 20% Glass Fiber Reinforced
- Added Release "R"
- Additional UV "U"

**COLOR**

-All

**General**

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

**ASTM / ISO Properties<sup>1</sup>**

**Physical**

	Nominal Value	Unit	Test Method
Density	1.41	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (337°C/6.6kg)	7	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.3 to 0.5	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal

**Mechanical**

	Nominal Value	Unit	Test Method
Tensile Strength, brk	18,500	psi	ASTM D638
Tensile Elongation	>3	%	ASTM D638
Flexural Modulus	950,000	psi	ASTM D790
Un-Notched Izod Impact	7	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)	410	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	410	°F	ASTM D648
Vicat Softening Temperature	426	°F	ASTM D1525
RTI Elec	337	°F	UL 746
RTI IMP	337	°F	UL 746
RTI Str	337	°F	UL 746
CLTE - Flow	1.4E-5	in/in/°F	ASTM E831

**Flammability**

	Nominal Value	Unit	Test Method
0.06 in	V0		UL94 - TVT Internal
0.125 in	5VA		UL94 - TVT Internal

**Recommended Processing Guidance**

Drying Temperature	295 to 305	°F
Drying Time	4 to 6	Hours
Suggested Max Moisture	0.02	%
Processing Melt Temperature	660 to 750	°F
Mold Temperature	270 to 320	°F