



TRIVALENCE

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TriEXO 29G30PEI (U,R)

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Polyether Imide

General Information

Product Description	
High heat resin, PEI. Glass Fiber Reinforced	
FEATURES	ADDITIONAL FORMULAS
-High Strength	-30% Glass Fiber Reinforced
-High Temperature	-Added Release "R"
-Chemical resistant	-Additional UV "U"
-Inherently Flame Retardant	
	COLOR
	-All
	-Opaque

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 Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm ³	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
0.06 in	V0/5VA		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	690 to 780 °F
Mold Temperature	270 to 350 °F

¹ Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.