



TRIVALENCE

TriEXO 29G30PEI (U,R)

Polyether Imide

Product Description	General Information
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High heat resin, PEI. Glass Fiber Reinforced

FEATURES

- High Strength -30% Glass Fiber Reinforced
- High Temperature
- Chemical resistant
- Inherently Flame Retardant

ADDITIONAL FORMULAS

- Added Release "R"
- Additional UV "U"

COLOR

- All
- Opaque

General

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|-----------------------------|---|
| 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 ¹		
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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		
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| 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 |