



TRIVALENCE

TriEXO 29G10PEI (U,R)

Polyether Imide

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

FEATURES

- High Strength -10% Glass Fiber Reinforced
- High Temperature
- Chemical resistant
- Inherently Flame Retardant

ADDITIONAL FORMULAS

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

COLOR

-All

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	1.34	g/cm ³	ASTM D792
Melt Flow Rate (337°C/6.6kg)	7	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.5 to 0.7	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, brk	16,500	psi	ASTM D638
Tensile Elongation	>5	%	ASTM D638
Flexural Modulus	740,000	psi	ASTM D790
Un-Notched Izod Impact	8	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)	405	°F	ASTM D648
Vicat Softening Temperature	432	°F	ASTM D1525
RTI Elec	337	°F	UL 746
RTI IMP	337	°F	UL 746
RTI Str	337	°F	UL 746
CLTE - Flow	1.8E-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 | 660 to 750 °F |
| Mold Temperature | 270 to 320 °F |