Headquarters
3001 Maxx Road
Evansville, IN 47711
800.209.2517

trivalencetechnologies.com

TriEXO 29PEI (U,R)

Polyether Imide

General Information

Product Description

High heat resin, PEI.

FEATURES	ADDITIONAL FORMULAS	COLOR
-High Strength	-Added Release "R"	-All
-High Temperature	-Additional UV "U"	-Transparents
-Chemical resistant		
-Inherently Flame Retardant		

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[1]

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm³	ASTM D792
Melt Flow Rate (337°C/6.6kg)	10	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	15,500	psi	ASTM D638
Tensile Elongation	>50	%	ASTM D638
Flexural Modulus	500,000	psi	ASTM D790
Un-Notched Izod Impact	20	ft-lbs/in	ASTM D256
Rockwell Hardness	109	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)	388	°F	ASTM D648
Vicat Softening Temperature	422	°F	ASTM D1525
RTI Elec	337	°F	UL 746
RTI IMP	337	°F	UL 746
RTI Str	337	°F	UL 746
CLTE - Flow	3.1E-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	

[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.