



TRIVALENCE

TriEXO 39PEI (U,R)

Polyether Imide

General Information

Product Description

High heat resin, PEI.

FEATURES

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

ADDITIONAL FORMULAS

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

COLOR

- All
- Transparent

General

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

ASTM / ISO Properties¹

Physical

	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ASTM D792
Melt Flow Rate (337°C/6.6kg)	15	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