



TRIVALENCE

TriEXO 39PEI (U,R)

Polyether Imide

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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

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.