



TRIVALENCE

TriEXO 21G20PPS (U,R)

Polyphenylene Sulfide

General Information

Product Description

High heat resin, PPS, Glass Fiber Reinforced

FEATURES

-High Strength -20% Glass Fiber Reinforced
 -High Temperature
 -Chemical resistant

ADDITIONAL FORMULAS

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

COLOR

-All

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	1.33	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.6	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, brk	18,100	psi	ASTM D638
Tensile Elongation	>1.5	%	ASTM D638
Flexural Modulus	990,000	psi	ASTM D790
Un-Notched Izod Impact	6	ft-lbs/in	ASTM D256
Rockwell Hardness	125	R-Scale	ASTM D785

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	520	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	485	°F	ASTM D648

Flammability	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 - TVT Internal

Recommended Processing Guidance

Drying Temperature	220 to 230 °F
Drying Time	4 to 6 Hours
Suggested Max Moisture	0.02 %
Processing Melt Temperature	620 to 660 °F
Mold Temperature	150 to 300 °F