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TriEXO 21G20PPS (U,R)

Polyphenylene Sulfide

General Information

Product Description

High heat resin, PPS. Glass Fiber Reinforced

FEATURES		ADDITIONAL FORMULAS	COLOR
-High Strength	-20% Glass Fiber Reinforced	-Added Release "R"	-All
-High Temperature		-Additional UV "U"	
-Chemical resistant			

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/cm³	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

[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.