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TriVEX™ 14FR5 (U,R) (20M)

Polycarbonate

trivalencetechnologies.com

Product Description

General Information

Non halogenated flame retardant polycarbonate modified with siloxane for superior cold temperature impact resistance.

FEATURES ADDITIONAL FORMULAS -Good Impact/Ductility (Ambient and Extreme Cold) -Added Release "R"

COLOR -All

-Enhanced Flow and Release

-Additional UV "U" - Great UV Perfomance

-Flame Retardant

Mold Temperature

-RoHS/REACH Compliant

General

Typical Applications -Appliance, electrical, lawn & garden, automotive, military, rescue, sporting goods

Processing Method -Injection/Extrusion

Form(s) -Pellets

Availability -North America, Europe, Latin America

ASTM / ISO Properties ¹		
Physical	Nominal Value Unit	Test Method
Density	1.19 g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	20 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.5 to 0.8 %	TVT Internal
Outdoor Suitability (QUV) (U Grades)	Pass	TVT Internal
Mechanical	Nominal Value Unit	Test Method
Tensile Strength, brk	9000 psi	ASTM D638
Tensile Elongation	120 %	ASTM D638
Flexural Modulus	380000 psi	ASTM D790
Notched Izod Impact (R.T)	16 ft-lbs/in	ASTM D256
Notched Izod Impact (-22C)	10 ft-lbs/in	ASTM D257
Rockwell Hardness	118 R-Scale	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	272 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	252 °F	ASTM D648
Vicat Softening Temperature	284 °F	ASTM D1525
CLTE - Flow	3.4E-5 in/in/°F	ASTM E831
Flammability	Nominal Value Unit	Test Method
0.06 in	V0	UL94 - TVT Internal
0.12 in	5V	UL94 - TVT Internal
Recommended Processing Guidance		
Drying Temperature	230 to 250 °F	
Drying Time	3 to 6 Hours	
Suggested Max Moisture	0.02 %	
Processing Melt Temperature	550 to 600 °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.

140 to 195 °F