

Headquarters 3001 Maxx Rd Evansville, IN 47711 800.209.2517

TriVEX™ 14FR0HF (U,R)

Polycarbonate + Siloxane

trivalencetechnologies.com

COLOR

-All

Canara	I Information	_
(-onora	i intormatio	n

Product Description

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

FEATURES

-Good Impact/Ductility (Ambient and

Extreme Cold)

-Enhanced Flow and Release -Flame Retardant

-RoHS/REACH Compliant
-Improved Chemical Resistance

-Halogen Free -Bromine Free

-Chlorine Free -PFAS Free

-Excellent Aesthetics
-Offers Paint Elimination

General

Typical Applications

Drying Temperature

Mold Temperature

Suggested Max Moisture

Processing Melt Temperature

Drying Time

-Solar, military and defense gear, heathcare, EV battery, sporting goods, safety and rescue, transportation, lawn and garden, industrial packaging, electrical components, oil/gas, appliance, aerospace, 3d printing, recreational vehicles, building materials, railway, wire and cable.

ADDITIONAL FORMULAS

-Additional UV "U" - Great UV Perfomance

-Added Release "R"

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)	16 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	8600 psi	ASTM D638	
Tensile Elongation	120 %	ASTM D638	
Flexural Modulus	320,000 psi	ASTM D790	
Notched Izod Impact (R.T)	14 ft-lbs/in	ASTM D256	
Notched Izod Impact (-40C)	8 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 - Pending	
0.12 in	5V	UL94 - Pending	
Recommended Processing Guidance			

230 to 250 °F

500 to 590 °F

145 to 195 °F

3 to 6 Hours

0.02 %

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.