

TriVEX™ 16FR5HF (U,R)

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COLOR

-All

TriVEX™ 16FR5HF (U,R)

General Information

Product Description

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

FEATURES ADDITIONAL FORMULAS

-Good Impact/Ductility (Ambient and Extreme Cold) -Halogen Free -Added Release "R" -Additional UV "U" - Great UV Perfomance

-Enhanced Flow and Release -Chlorine Free -Flame Retardant -PFAS Free

-RoHS/REACH Compliant -Excellent Aesthetics
-Improved Chemical Resistance -Offers Paint Elimination

General

Typical Applications -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.

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)	15 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	8800 psi	ASTM D638
Tensile Elongation	120 %	ASTM D638
Flexural Modulus	320,000 psi	ASTM D790
Notched Izod Impact (R.T)	15 ft-lbs/in	ASTM D256
Notched Izod Impact (-40C)	10 ft-lbs/in	ASTM D257
Rockwell Hardness	118 R-Scale	ASTM D785
Thermal 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		
During Town auctions	220 to 250 °F	

 Drying Temperature
 230 to 250 °F

 Drying Time
 3 to 6 Hours

 Suggested Max Moisture
 0.02 %

 Processing Melt Temperature
 500 to 590 °F

 Mold Temperature
 145 to 195 °F

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.