



TRIVALENCE

TriVEX 16FR5 HF (U,R)

Polycarbonate + Siloxane

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General Information

Product Description

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

FEATURES

- Great Impact/Ductility (Ambient and Extreme Cold)
- High Flow and Release
- Flame Retardant
- RoHS/REACH Compliant

ADDITIONAL FORMULAS

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

COLOR

- All
- Transparent

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 Properties¹

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	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 (-40C)	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	
Mold Temperature	140 to 195	°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.