

TriVEX™ 14 (U,R)

Polycarbonate + Siloxane

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Genera		

Product Description

Polycarbonate modified with siloxane for superior cold temperature impact resistance.

-Offers Paint Elimination

-Improved Chemical Resistance

-PFAS Free

FEATURES

-Good Impact/Ductility (Ambient and Extreme Cold)

-Excellent Aesthetics

-Enhanced Flow and Release

-RoHS/REACH Compliant

Mold Temperature

ADDITIONAL FORMULAS

-Added Release "R"

-Additional UV "U" - Great UV Perfomance

COLOR

-AII

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	1.18 g/cm³	ASTM D792		
Melt Flow Rate (300°C/1.2kg)	8 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	8200 psi	ASTM D638		
Tensile Elongation	120 %	ASTM D638		
Flexural Modulus	315,000 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)	258 °F	ASTM D648		
Deflection Temperature Under Load (1.8 MPa)	245 °F	ASTM D648		
Vicat Softening Temperature	282 °F	ASTM D1525		
CLTE - Flow	3.4E-5 in/in/°F	ASTM E831		
Flammability	Nominal Value Unit	Test Method		
0.12 in	НВ	UL94 - Pending		
Recommended Processing Guidance				
Drying Temperature	230 to 250 °F			
Drying Time	3 to 6 Hours			
Suggested Max Moisture	0.02 %			
Processing Melt Temperature	500 to 590 °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.

145 to 195 °F