

**TRIVALENCE**

TriVEX™ 13SFD (U)

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General Information

Product Description

Polycarbonate modified with siloxane. High flow.

FEATURES

- Good Impact/Ductility (Ambient and Cold)
- Enhanced Flow and Release
- Excellent Aesthetics
- RoHS/REACH Compliant
- Offers Paint Elimination
- PFAS Free
- Improved Chemical Resistance
- FDA Compliant

ADDITIONAL FORMULAS

- Additional UV "U" - Great UV Performance

COLOR

- All

General

Typical Applications

-Healthcare, housings, food packaging, mold making.

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Canada

ASTM / ISO Properties¹

Physical

Nominal Value Unit**Test Method**

Density	1.19 g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	18 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	10,400 psi	ASTM D638
Flexural Modulus	355,000 psi	ASTM D790
Notched Izod Impact (R.T)	12 ft-lbs/in	ASTM D256
Notched Izod Impact (-20C)	6 ft-lbs/in	ASTM D257

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	3.5E-5 in/in/°F	ASTM E831

Flammability

Nominal Value Unit**Test Method**

0.12 in	V2	UL94 - TVT Internal
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Recommended Processing Guidance

Drying Temperature	230 to 250 °F
Drying Time	3 to 6 Hours
Suggested Max Moisture	0.02 %
Processing Melt Temperature	520 to 590 °F
Mold Temperature	145 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.