



**TRIVALENCE**

# TriVEX™ 13(U,R,L)

**Polycarbonate**

**General Information**

**Product Description**

General purpose, high impact polycarbonate

**FEATURES**

- Great Impact
- Great Strength
- Lubricated

**ADDITIONAL FORMULAS**

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

**COLOR**

- All
- Transparent

**General**

- |                             |  |
|-----------------------------|--|
| <b>Typical Applications</b> | -Appliance, electrical, lawn & garden, automotive, medical |
| <b>Processing Method</b>    | -Injection/Extrusion                                       |
| <b>Form(s)</b>              | -Pellets   |
| <b>Availability</b>         | -North America, Europe, Asia, Latin America                |

**ASTM / ISO Properties<sup>1</sup>**

Physical	Nominal Value Unit	Test Method
Density	1.19 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (300°C/1.2kg)	8 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.5 to 0.7 %	TVT Internal
Outdoor Suitability (QUV) (12U Grades)	Pass	TVT Internal

Mechanical	Nominal Value Unit	Test Method
Tensile Strength, brk	9700 psi	ASTM D638
Tensile Elongation	>120 %	ASTM D638
Flexural Modulus	325000 psi	ASTM D790
Notched Izod Impact	15 ft-lbs/in	ASTM D256
Rockwell Hardness	118 R-Scale	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	278 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	259 °F	ASTM D648
Vicat Softening Temperature	308 °F	ASTM D1525
RTI Elec	176 °F	UL 746
RTI IMP	176 °F	UL 746
RTI Str	176 °F	UL 746
CLTE - Flow	3.8E-5 in/in/°F	ASTM E831

Flammability	Nominal Value Unit	Test Method
0.06 in	HB	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 | 520 to 560 °F |
| Mold Temperature            | 140 to 180 °F |