



TRIVALENCE

TriVEX™ 02 (U,R)

Headquarters
3001 Maxx Rd
Evansville, IN 47711
800.209.2517

trivalencetechnologies.com

Polycarbonate

General Information

Product Description

General purpose, high impact polycarbonate

FEATURES

- High Impact
- High Optical Quality
- Low Flow/Branched Resin

ADDITIONAL FORMULAS

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

COLOR

- All
- Transparent

General

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

ASTM / ISO Properties¹

Physical	Nominal Value Unit	Test Method
Density	1.20 g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	3 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	9500 psi	ASTM D638
Tensile Elongation	>65 %	ASTM D638
Flexural Modulus	330000 psi	ASTM D790
Notched Izod Impact	14 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)	292 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	266 °F	ASTM D648
Vicat Softening Temperature	302 °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	600 to 650 °F
Mold Temperature	175 to 240 °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.