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TriVEX™ 42 (U,R)

Polycarbonate

General Information

Product Description

General purpose, high flow, high impact polycarbonate

FEATURES	ADDITIONAL FORMULAS	COLOR
-High Impact	-Added Release "R"	-All
-High Optical Quality	-Additional UV "U"	-Transparent

General

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

ASTM / ISO Properties[1]

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	35	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	9600	psi	ASTM D638
Tensile Elongation	>100	%	ASTM D638
Flexural Modulus	320000	psi	ASTM D790
Notched Izod Impact	12	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)	270	°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

[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.