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TriVEX™ 21G30 (U,R)

Polycarbonate

General Information

Product Description

Glass fiber reinforced polycarbonate

FEATURES	ADDITIONAL FORMULAS	COLOR
-30% Glass Fiber Reinforced	-Added Release "R"	-All
-Good Strength	-Added UV "U"	
-Good Creep Resistance		
-Low Flow		

General

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

ASTM / ISO Properties[1]

Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	8	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.4	%	TVT Internal
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength, yld	17,000	psi	ASTM D638
Tensile Elongation	>3	%	ASTM D638
Tensile Modulus	8,300	MPa	ASTM D638
Notched Izod Impact	1.8	ft-lbs/in	ASTM D256
Rockwell Hardness	123	R-Scale	ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa)	290	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	275	°F	ASTM D648
Vicat Softening Temperature	295	°F	ASTM D1525
CLTE - Flow	1.7E-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 260	°F	
Drying Time	3 to 6	Hours	
Suggested Max Moisture	0.02	%	
Processing Melt Temperature	560 to 600	°F	
Mold Temperature	175 to 230	°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.