

Headquarters 3001 Maxx Rd Evansville, IN 47711 800.209.2517

TriVEX™ 21G20 (U,R)

trivalencetechnologies.com

Polycarbonate

General Information				
Product Description				
Glass fiber reinforced polycarbonate				
FEATURES	ADDITIONAL FORMULAS	COLOR		
-20% Glass Fiber Reinforced	-Added Release "R"	-AII		
-Great Strength	-Added UV "U"			
-Good Creep Resistance				
-Medium 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	1.35 g/cm ³	ASTM D792	
Melt Flow Rate (300°C/1.2kg)	14 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	15,800 psi	ASTM D638	
Tensile Elongation	>5 %	ASTM D638	
Flexural Modulus	790000 psi	ASTM D790	
Notched Izod Impact	1.9 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)	295 °F	ASTM D648	
Deflection Temperature Under Load (1.8 MPa)	280 °F	ASTM D648	
Vicat Softening Temperature	318 °F	ASTM D1525	
CLTE - Flow	1.6E-5 in/in/°F	ASTM E831	
Flammability	Nominal Value Unit	Test Method	
0.06 in	НВ	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** 590 to 640 °F Mold Temperature 175 to 230 °F

Note: I ne 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.