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TriVEX™ 21G10FR2 (U,R)

Polycarbonate

trivalencetechnologies.com

	Des	

Flame retardant, 10% glass reinforced polycarbonate.

FEATURES

ADDITIONAL FORMULAS COLOR -Flame Retardant -Added Release "R" -All

-High Impact -Added UV "U"

-UV Stabilized

-Medium Flow

General

Typical Applications -Appliance, electrical, lawn & garden, automotive, electronic

Processing Method -Injection/Extrusion

Form(s) -Pellets

Availability -North America, Europe, Asia, Latin America

ASTM / ISO Properties ¹					
Physical	Nominal Value Unit	Test Method			
Density	1.26 g/cm ³	ASTM D792			
Melt Flow Rate (300°C/1.2kg)	12 g/10min	ASTM D1238			
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.4 %	TVT Internal			
Outdoor Suitability (QUV) ("U" grades only)	Pass	TVT Internal			
Mechanical	Nominal Value Unit	Test Method			
Tensile Strength, yld	9400 psi	ASTM D638			
Tensile Elongation	10 %	ASTM D638			
Flexural Modulus	480000 psi	ASTM D790			
Notched Izod Impact	2.5 ft-lbs/in	ASTM D256			
Rockwell Hardness	122 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)	284 °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	1.8E-5 in/in/°F	ASTM E831			
Flammability	Nominal Value Unit	Test Method			
0.06 in	V2	UL94 TVT Internal			
0.12 in	V0	UL94 TVT Internal			

General Information

Recommended Processing Guidance

230 to 250 °F **Drying Temperature Drying Time** 3 to 6 Hours Suggested Max Moisture 0.02 % **Processing Melt Temperature** 580 to 615 °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.