

TriVEX[™] 31G10FR2 (U,R)

Headquarters 3001 Maxx Rd Evansville, IN 47711 800.209.2517

trivalencetechnologies.com

Polycarbonate

General Information

Flame retardant, 10% glass r	elinorceu polycarbonale.				
FEATURES	ADDITIONAL FO	RMULAS	COLOR		
-Flame Retardant	-Added Release "R	1	-All		
-Great Impact	-Added UV "U"				
-UV Stabilized					
-High Flow					
neral					
Typical Applications	-Appliance, electrical, lawn & garden, automotive, electronic				
Processing Method	-Injection/Extrusion				
Form(s)	-Pellets				
Availability	-North America, Europe, Asia, Latin America				
	ASTM / ISO Pro	perties ¹			
/sical		Nominal Value Unit	Tes	st Method	
Density		1.25 g/cm ³	ASTM	D792	
Melt Flow Rate (300°C/1.2kg)		20 g/10min	ASTM	D1238	
Molding Shrinkage - Flow (3.2mm)		0.2 to 0.4 %	TVT Int	ernal	
Outdoor Suitability (QUV) ("U" grades only)		Pass	TVT Int	ernal	
chanical		Nominal Value Unit	Tes	st Method	
Tensile Strength, vld		9400 psi	ASTM	D638	

Outdoor Suitability (QUV) ("U" grades only)	Pass	TVT Internal Test Method	
Mechanical	Nominal Value Unit		
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	
Recommended Processing Guidance			
Drying Temperature	230 to 250 °F		
Drying Time	3 to 6 Hours		
Suggested Max Moisture	0.02 %		
Processing Melt Temperature	580 to 615 °F		
Mold Temperature	175 to 230 °F		

Note: Ine 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.