

Headquarters 3001 Maxx Rd Evansville, IN 47711 800.209.2517

trivalencetechnologies.com

	General	Information	
duct Description			
Non halogenated flame retardant p	polycarbonate modified with sile	exane for superior cold temperature impact	t resistance.
FEATURES		ADDITIONAL FORMULAS	COLOR
-Good Impact/Ductility (Ambient	-Halogen Free	-Added Release "R"	-All
and Extreme Cold)	-Bromine Free	-Additional UV "U"	,
-Enhanced Flow and Release	-Chlorine Free		
-Flame Retardant	-PFAS Free		
-RoHS/REACH Compliant	-Excellent Aesthetics		
-Improved Chemical Resistance	-Offers Paint Elimination		
neral			
Typical Applications		gear, heathcare, EV battery, sporting good	
		packaging, electrical components, oil/gas,	appliance, aerospace, 3d printir
		ng materials, railway, wire and cable.	
Processing Method	-Injection/Extrusion		
Form(s)	-Pellets		
Availability	-North America, Europe, Lat	in America	
	ASTM / IS	O Properties ¹	
/sical		Nominal Value Unit	Test Method
Density		1.19 g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)		8 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)		0.5 to 0.8 %	TVT Internal
Outdoor Suitability (QUV) (U Grades)		Pass	TVT Internal
chanical		Nominal Value Unit	Test Method
Tensile Strength, brk		8800 psi	ASTM D638
Tensile Elongation		120 %	ASTM D638
Flexural Modulus		320,000 psi	ASTM D790
Notched Izod Impact (R.T)		15 ft-lbs/in	ASTM D256
Notched Izod Impact (-40C)		10 ft-lbs/in	ASTM D257
Rockwell Hardness		118 R-Scale	ASTM D785
ermal		Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)		272 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)		252 °F	ASTM D648
Vicat Softening Temperature		284 °F	ASTM D1525
CLTE - Flow		3.4E-5 in/in/°F	ASTM E831
mmability		Nominal Value Unit	Test Method
0.06 in		V0	UL94 - Pending
0.12 in		5V	UL94 - Pending
commended Processing Guidar	nce		
Drying Temperature		230 to 250 °F	
Drying Time		3 to 6 Hours	
Suggested Max Moisture		0.02 %	
Processing Melt Temperature Mold Temperature		500 to 590 °F 145 to 195 °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.