



**TRIVALENCE**

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# TriVET™ 12CP

Proprietary Copolyester

trivalancetechnologies.com

General Information			
Product Description			
Proprietary copolyester			
FEATURES		ADDITIONAL FORMULAS	COLOR
-Great Clarity	-Good Impact	-Added Release "R"	-All
-Chemical Resistance		-Added UV "U"	
-RoHS/REACH Compliant			
-Medium Flow			
General			
Typical Applications		-Small appliance, electrical, lawn & garden, potables, food contact	
Processing Method		-Injection	
Form(s)		-Pellets	
Availability		-North America, Europe, Latin America	
ASTM / ISO Properties <sup>1</sup>			
Physical		Nominal Value Unit	Test Method
Density		1.18 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate		3 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)		0.3 to 0.6 %	ASTM D955
Outdoor Suitability - QUV ("U" grades only)		Pass	QUV - TVT Internal
Mechanical		Nominal Value Unit	Test Method
Tensile Strength, yld		8,800 psi	ASTM D638
Flexural Modulus		250000 psi	ASTM D790
Notched Izod Impact, 73F		14.0 ft-lb/in	ASTM D256
Thermal		Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)		210 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)		185 °F	ASTM D648
Flammability		Nominal Value Unit	Test Method
0.06 in		HB	UL94 TVT Internal
Recommended Processing Guidance			
Drying Temperature		180 to 200 °F	
Drying Time		4 to 6 Hours	
Suggested Max Moisture		0.02 %	
Processing Melt Temperature		530 to 540 °F	**Allow extra time to cure
Mold Temperature		120 to 150 °F	

<sup>1</sup> 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.