



TRIVALENCE

TriVET™ 21G7FR5 (U,R)

Polybutylene Terephthalate

Product Description	General Information
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Glass fiber reinforced PBT, flame retardant grade			
FEATURES	ADDITIONAL FORMULAS	COLOR	
-7% Glass Fiber Reinforced	-Flame Retardant	-Added Release "R"	
-Chemical Resistance		-Added UV "U"	
-RoHS/REACH Compliant			
-Medium Flow			

General

Typical Applications	-Appliance, electrical, lawn & garden, recreation
Processing Method	-Injection/Extrusion
Form(s)	-Pellets
Availability	-North America, Europe, Latin America

ASTM / ISO Properties ¹

Physical	Nominal Value Unit	Test Method
Density	1.46 g/cm ³	ASTM D792
Melt Flow Rate (250°C/2.16kg)	16 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.6 to 0.9 %	ASTM D955
Outdoor Suitability - QUV ("U" grades only)	Pass	QUV - TVT Internal
Mechanical	Nominal Value Unit	Test Method
Tensile Strength, brk	11,300 psi	ASTM D638
Flexural Modulus	500,000 psi	ASTM D790
Notched Izod Impact, 73F	0.6 ft-lb/in	ASTM D256
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)(0.25in)	390 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)(0.25in)	300 °F	ASTM D648
CLTE - Flow	3.75E-5 in/in/°F	ASTM E831
Flammability	Nominal Value Unit	Test Method
0.06 in	V0 Burn Rate	UL94 TVT Internal
0.125 in	5V Burn Rate	UL94 TVT Internal

Recommended Processing Guidance

Drying Temperature	220 to 255 °F
Drying Time	3 to 6 Hours
Suggested Max Moisture	0.02 %
Processing Melt Temperature	480 to 500 °F
Mold Temperature	140 to 190 °F