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TriVET™ 12G30FR5 (U,R)

Polybutylene Terephthalate

General Information

Product Description

Glass fiber reinforced PBT, flame retardant

FEATURES		ADDITIONAL FORMULAS	COLOR
-30% Glass Fiber Reinforced	-Flame Retardant	-Added Release "R"	-All
-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	1.65	g/cm³	ASTM D792
Melt Flow Rate (250°C/2.16kg)	16	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.3 to 0.5	%	ASTM D955
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength, yld	19,200	psi	ASTM D638
Tensile Elongation	>2	%	ASTM D638
Flexural Modulus	1450000	psi	ASTM D790
Notched Izod Impact, 73F	1.8	ft-lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa)(0.25in)	425	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)(0.25in)	408	°F	ASTM D648
CLTE - Flow	1.4E-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	450 to 490	°F	
Mold Temperature	140 to 190	°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.