



**TRIVALENCE**

# TriVET™ 12G30FR5 (U,R)

**Polybutylene Terephthalate/Polycarbonate**

**General Information**

**Product Description**

Glass fiber reinforced PBT + PC, flame retardant

**FEATURES**

- 30% Glass Fiber Reinforced
- Chemical Resistance
- RoHS/REACH Compliant
- Medium Flow

-Flame Retardant

**ADDITIONAL FORMULAS**

- Added Release "R"
- Added UV "U"

**COLOR**

-All

**General**

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

**ASTM / ISO Properties<sup>1</sup>**

**Physical**

	Nominal Value	Unit	Test Method
Density	1.59	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (250°C/2.16kg)	16	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.6	%	ASTM D955
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal

**Mechanical**

	Nominal Value	Unit	Test Method
Tensile Strength, brk	15,500	psi	ASTM D638
Tensile Elongation	>2	%	ASTM D638
Flexural Modulus	1200000	psi	ASTM D790
Notched Izod Impact, 73F	1.5	ft-lb/in	ASTM D256

**Thermal**

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)(0.25in)	399	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)(0.25in)	280	°F	ASTM D648
CLTE - Flow	1.3E-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