



**TRIVALENCE**

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# TriVET 12G30FR5 (U,R)

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## Polybutylene Terephthalate

### General Information

#### Product Description

Glass fiber reinforced PBT, 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	1.65 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (250°C/2.16kg)	16 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.3 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

<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.