



TRIVALENCE

Headquarters
3001 Maxx Road
Evansville, IN 47711
800.209.2517

TriVET™ 31GM30B (U,R)

Polybutylene Terephthalate

trivalancetechnologies.com

General Information

Product Description

Glass fiber/mineral reinforced PBT

FEATURES

- 30% Glass Fiber/mineral Reinforced
- Chemical Resistance
- RoHS/REACH Compliant
- Medium Flow
- Improved warp resistance

ADDITIONAL FORMULAS

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

COLOR

-All

General

Typical Applications

-Appliance, electrical, lawn & garden.

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Europe, Latin America

ASTM / ISO Properties¹

	Nominal Value	Unit	Test Method
Physical			
Density	1.55	g/cm ³	ASTM D792
Melt Flow Rate (265°C/2.16kg)	45	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.7	%	ASTM D955
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal
Mechanical			
Tensile Strength, brk	18,000	psi	ASTM D638
Tensile Elongation	>2	%	ASTM D638
Flexural Modulus	1,100,000	psi	ASTM D790
Notched Izod Impact, 73F	1.0	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (0.45 MPa)(0.25in)	430	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)(0.25in)	395	°F	ASTM D648
CLTE - Flow	1.6E-5	in/in/°F	ASTM E831
Flammability			
0.06 in	HB		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	

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.