



TRIVALENCE

TriVET™ 31GM30B (U,R)

Polybutylene Terephthalate

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	