



TRIVALENCE

TriVET 21G50BP (U,R)

Polybutylene Terephthalate + PET

Headquarters
3001 Maxx Road
Evansville, IN 47711
800.209.2517

trivalencetechnologies.com

General Information

Product Description

Glass fiber reinforced polybutylene terephthalate + PET

FEATURES

- 50% Glass Fiber Reinforced
- Great Strength
- Good Dimensional Stability
- Low Flow

ADDITIONAL FORMULAS

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

COLOR

-All

General

- Typical Applications** -Appliance, electrical, lawn & garden, automotive, electronic
- Processing Method** -Injection
- Form(s)** -Pellets
- Availability** -North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

Physical

	Nominal Value	Unit	Test Method
Density	1.73	g/cm ³	ISO 1183
Melt Flow Rate (275°C/2.16kg)	12	g/10min	ISO 1133
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.4	%	TVT Internal
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal

Mechanical

	Nominal Value	Unit	Test Method
Tensile Strength, yld	165	MPa	ISO 527
Tensile Elongation	>1.5	%	ISO 527
Flexural Modulus	17,000	MPa	ISO 178
Charpy Notched Impact	10.0	kJ/m ²	ISO 179

Thermal

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	220	°C	ISO 75
Deflection Temperature Under Load (1.8 MPa)	205	°C	ISO 75
Vicat Softening Temperature	215	°C	ISO 75

Flammability

	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 TVT Internal

Recommended Processing Guidance

Drying Temperature	110 to 130	°C
Drying Time	3 to 6	Hours
Suggested Max Moisture	0.02	%
Processing Melt Temperature	250 to 280	°C
Mold Temperature	60 to 100	°C

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.