



TRIVALENCE

TriVET™ 21G50BP (U,R)

Polybutylene Terephthalate + PET

Product Description	General Information
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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 Properties ¹			
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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		
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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