



TRIVALENCE

TriVET™ 22G20B (U,R)
Polybutylene Terephthalate

General Information

Product Description

Glass fiber reinforced polybutylene terephthalate

FEATURES

- 20% Glass Fiber Reinforced
- Great Strength
- Good Dimensional Stability
- Medium 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	1.45	g/cm ³	ISO 1183
Melt Flow Rate (235°C/2.16kg)	18	g/10min	ISO 1133
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.6	%	TVT Internal
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	120	MPa	ISO 527
Tensile Elongation	>2	%	ISO 527
Flexural Modulus	6600	MPa	ISO 178
Charpy Notched Impact	6.8	kJ/m ²	ISO 179
Rockwell Hardness	119	R-Scale	ISO 2039
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	217	°C	ISO 75
Deflection Temperature Under Load (1.8 MPa)	207	°C	ISO 75
Vicat Softening Temperature	213	°C	ISO 75
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM E831
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	240 to 275	°C	
Mold Temperature	60 to 90	°C	