Headquarters
3001 Maxx Road
Evansville, IN 47711
800.209.2517

trivalancetechnologies.com

TriVET™ 22G20B (U,R)

Polybutylene Terephthalate

General Information

Product Description

Glass fiber reinforced polybutylene terephthalate

FEATURES	ADDITIONAL FORMULAS	COLOR
-20% Glass Fiber Reinforced	-Added Release "R"	-All
-Great Strength	-Added UV "U"	
-Good Dimensional Stability		
-Medium Flow		

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]

Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm³	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/m2	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	

[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.