



**TRIVALENCE**

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# TriVET 21GM40FR0EB (U,R)

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## Polybutylene Terephthalate + PET

### General Information

#### Product Description

Glass fiber + mineral reinforced PBT + PET, flame retardant

#### FEATURES

- 40% Glass Fiber + Mineral Reinforced
- Chemical Resistance
- RoHS/REACH Compliant
- Medium Flow
- Flame Retardant
- Bloom Reducing

#### ADDITIONAL FORMULAS

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

#### COLOR

-All

### General

- Typical Applications** -Appliance, electrical, lawn & garden, lighting
- Processing Method** -Injection/Extrusion
- Form(s)** -Pellets
- Availability** -North America, Europe, Latin America

### ASTM / ISO Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.77	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (250°C/2.16kg)	12	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.3 to 0.5	%	ASTM D955
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, brk	14,000	psi	ASTM D638
Tensile Elongation	>2	%	ASTM D638
Flexural Modulus	1480000	psi	ASTM D790
Notched Izod Impact, 73F	0.8	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)(0.25in)	408	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)(0.25in)	375	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
0.06 in	V0	Burn Rate	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 530 °F
- Mold Temperature 140 to 190 °F

<sup>1</sup> 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.