



TRIVALENCE

TriVET™ 21GM40FR0EB (U,R)

Polybutylene Terephthalate + PET

General Information

Product Description

Glass fiber + mineral reinforced PBT + PET, flame retardant

FEATURES

- 30% 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 Properties¹

	Nominal Value	Unit	Test Method
Physical			
Density	1.77	g/cm ³	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			
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			
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			
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	