



TRIVALENCE

TriVET 13FR0BP (U,R)

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Polybutylene Terephthalate

General Information

Product Description

PBT, impact modified, flame retardant

FEATURES

-Flame Retardant
-Chemical Resistance
-RoHS/REACH Compliant
-Medium Flow

-Impact Modified

ADDITIONAL FORMULAS

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

COLOR

-All

General

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

ASTM / ISO Properties¹

	Nominal Value	Unit	Test Method
Physical			
Density	1.35	g/cm ³	ASTM D792
Melt Flow Rate (250°C/5.0kg)	18	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.9 to 1.3	%	ASTM D955
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal
Mechanical			
Tensile Strength, yld	7,200	psi	ASTM D638
Tensile Elongation, brk	>100	%	ASTM D638
Flexural Modulus	290,000	psi	ASTM D790
Notched Izod Impact, 73F	10.0	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (0.45 MPa)(0.25in)	272	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)(0.25in)	205	°F	ASTM D648
CLTE - Flow	5.1E-5	in/in/°F	ASTM E831
Flammability			
0.06 in	V0		UL94 TVT Internal
0.125 in	5V		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 500 °F
Mold Temperature 120 to 160 °F

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.