



TRIVALENCE

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TriVET™ 11FR5B (U,R)

Polybutylene Terephthalate

trivalencetechnologies.com

General Information

Product Description

PBT flame retardant

FEATURES

- Unreinforced
- Chemical Resistance
- RoHS/REACH Compliant
- Medium Flow

-Flame Retardant

ADDITIONAL FORMULAS

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

COLOR

-All

General

Typical Applications

-Appliance, electrical, lawn & garden, recreation

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Europe, Latin America

ASTM / ISO Properties¹

Physical

	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ASTM D792
Melt Flow Rate (250°C/2.16kg)	12	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	1.1 to 1.8	%	ASTM D955
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal

Mechanical

	Nominal Value	Unit	Test Method
Tensile Strength, yld	8,000	psi	ASTM D638
Tensile Elongation	>5	%	ASTM D638
Flexural Modulus	330000	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)	310	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)(0.25in)	160	°F	ASTM D648

Flammability

	Nominal Value	Unit	Test Method
0.06 in	V0	Burn Rate	UL94 TVT Internal
0.125 in	5V	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	470 to 530	°F
Mold Temperature	140 to 190	°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.