



**TRIVALENCE**

# TriVET™ 11FR5B (U,R)

Polybutylene Terephthalate

## 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 Properties<sup>1</sup>

### Physical

	Nominal Value	Unit	Test Method
Density	1.40	g/cm <sup>3</sup>	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