



TRIVALENCE

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TriVET 21B (U,R)

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Polybutylene Terephthalate

General Information

Product Description

Medium flow, modified PBT.

FEATURES

- 1.10IV -High Molecular Weight
- Good strength
- Good Chemical Resistance
- Low Flow

ADDITIONAL FORMULAS

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

COLOR

-All

General

Typical Applications

-Transportation, housing, electrical

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

Physical

	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Melt Flow Rate (250°C/2.16kg)	25	g/10min	ISO 1133
Molding Shrinkage - Flow (3.2mm)	1.8 to 2.0	%	TVT Internal
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal

Mechanical

	Nominal Value	Unit	Test Method
Tensile Strength, yld	58	MPa	ISO 527
Tensile Modulus	2400	MPa	ISO 178
Charpy Notched Impact	3.1	kJ/m ²	ISO 179
Rockwell Hardness	70	M-Scale	ISO 2039

Thermal

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	301	°F	ISO 75
Deflection Temperature Under Load (1.8 MPa)	122	°F	ISO 75
Vicat Softening Temperature	364	°F	ISO 75
CLTE - Flow	6.1E-5	in/in/°F	ASTM E831

Flammability

	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 TVT Internal

Recommended Processing Guidance

Drying Temperature	110 to 130 °C
Drying Time	3 to 6 Hours
Suggested Max Moisture	0.02 %
Processing Melt Temperature	240 to 275 °C
Mold Temperature	60 to 90 °C

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.