



TRIVALENCE

TriVET 14BP (U,R)

Polybutylene Terephthalate + PC

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General Information

Product Description

PBT + PC, impact modified

FEATURES

- Superior Impact (Ambient and Cold)
- Chemical Resistance
- RoHS/REACH Compliant
- Low to Medium Flow

ADDITIONAL FORMULAS

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

COLOR

-All

General

Typical Applications

-Appliance, electrical, lawn & garden, transportation

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Europe, Latin America

ASTM / ISO Properties¹

Physical

	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ASTM D792
Melt Flow Rate (260°C/2.16kg)	10	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	1.5 to 1.8	%	ASTM D955
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal

Mechanical

	Nominal Value	Unit	Test Method
Tensile Strength, yld	6,400	psi	ASTM D638
Tensile Elongation	>160	%	ASTM D638
Flexural Modulus	260,000	psi	ASTM D790
Notched Izod Impact, 73F	15.0	ft-lb/in	ASTM D256
Notched Izod Impact, -22F	10.0	ft-lb/in	ASTM D256
Rockwell Hardness	110.0	R-Scale	ASTM D785

Thermal

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	195	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	122	°F	ASTM D648
CLTE - Flow	5.1E-5	in/in/°F	ASTM E831

Flammability

	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 TVT Internal

Recommended Processing Guidance

Drying Temperature	220 to 240	°F
Drying Time	3 to 6	Hours
Suggested Max Moisture	0.02	%
Processing Melt Temperature	470 to 510	°F
Mold Temperature	120 to 170	°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.