TRIVALENCE

TriVET™ 14BP (U,R)

Polybutylene Terephthalate + PC

General Information

Product Description

PBT + PC, impact modified

FEATURES	ADDITIONAL FORMULAS	COLOR
-Superior Impact (Ambient and Cold)	-Added Release "R"	-All
-Chemical Resistance	-Added UV "U"	
-RoHS/REACH Compliant		
-Low to Medium Flow		

General

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

ASTM / ISO Properties[1]

Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm³	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