



TRIVALENCE

TriBLEND 14 (U,R)

Polycarbonate + PBT

General Information

Product Description

Polycarbonate + PBT with superior impact.

FEATURES

- Outstanding Strength
- Great Chemical Resistance
- Superior Room/Cold Temperature Impact
- ROHS/REACH Compliant
- Low Flow

ADDITIONAL FORMULAS

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

COLOR

- All
- Opaque/Translucent

General

Typical Applications

-Military, lawn & garden, automotive, electronics, medical devices, housings

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

Physical

	Nominal Value Unit	Test Method
Density	1.21 g/cm ³	ASTM D792
Melt Flow Rate (260°C/5.0kg)	18 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	1.4 to 1.9 %	TVT Internal
Outdoor Suitability (QUV)("U" Grades Only)	Pass	TVT Internal

Mechanical

	Nominal Value Unit	Test Method
Tensile Strength, yld	6500 psi	ASTM D638
Tensile Elongation, brk	>160 %	ASTM D638
Flexural Modulus	250000 psi	ASTM D790
Gardner Impact	320 in-lbs	ASTM D5420
Notched Izod Impact (73F)	15 ft-lbs/in	ASTM D256
Notched Izod Impact (-22F)	10 ft-lbs/in	ASTM D257
Rockwell Hardness	110 R-Scale	ASTM D785

Thermal

	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	200 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	129 °F	ASTM D648
CLTE - Flow	5.3E-5 in/in/°F	ASTM E831

Flammability

	Nominal Value Unit	Test Method
0.06 in	HB	UL File E494706

Recommended Processing Guidance

Drying Temperature	200 to 240 °F
Drying Time	2 to 4 Hours
Suggested Max Moisture	0.02 %
Processing Melt Temperature	470 to 500 °F
Mold Temperature	125 to 175 °F