



**TRIVALENCE**

# TriBLEND 23IM (U,R)

**Polycarbonate + PBT**

**General Information**

**Product Description**

Polycarbonate + PBT with high impact.

**FEATURES**

- Outstanding Strength      -UL HB Rated
- Great Chemical Resistance
- Superior Room/Cold Temperature Impact
- ROHS/REACH Compliant
- Medium 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



**Underwriters Laboratories**

**ASTM / ISO Properties<sup>1</sup>**

**Physical**

	Nominal Value Unit	Test Method
Density	1.18 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (250°C/5.0kg)	15 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.9 to 1.2 %	TVT Internal
Outdoor Suitability (QUV)	Pass	TVT Internal

**Mechanical**

	Nominal Value Unit	Test Method
Tensile Strength, yld	7400 psi	ASTM D638
Tensile Elongation, brk	>140 %	ASTM D638
Flexural Modulus	280000 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	118 R-Scale	ASTM D785

**Thermal**

	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	238 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	204 °F	ASTM D648
Vicat Softening Temperature	251 °F	ASTM D1525
CLTE - Flow	5.4E-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	490 to 520 °F
Mold Temperature	150 to 190 °F