



TRIVALENCE

TriBLEND 12 (U,R)

Polycarbonate + PBT

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General Information

Product Description

Polycarbonate + PBT with good impact.

FEATURES

- High Strength
- Great Chemical Resistance
- Good 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, transportation, electronics, medical devices, housings

Processing Method

-Injection

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)	16 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.8 to 1.1 %	TVT Internal
Outdoor Suitability (QUV)("U" Grades Only)	Pass	TVT Internal

Mechanical

	Nominal Value Unit	Test Method
Tensile Strength, yld	7500 psi	ASTM D638
Tensile Elongation, brk	>140 %	ASTM D638
Flexural Modulus	278000 psi	ASTM D790
Gardner Impact	320 in-lbs	ASTM D5420
Notched Izod Impact (73F)	14 ft-lbs/in	ASTM D256
Notched Izod Impact (-22F)	5 ft-lbs/in	ASTM D257
Rockwell Hardness	112 R-Scale	ASTM D785

Thermal

	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	218 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	192 °F	ASTM D648
CLTE - Flow	9.3E-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	490 to 520 °F
Mold Temperature	105 to 175 °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.