



TRIVALENCE

TriBLEND 12 (U,R)

Polycarbonate + PBT

Product Description	General Information
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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
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General	
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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 Properties ¹		
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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	
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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