



TRIVALENCE

TriBLEND 13 (U,R)

Polycarbonate + PBT

Product Description	General Information
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<p>Polycarbonate + PBT with good impact.</p> <p>FEATURES</p> <ul style="list-style-type: none"> -High Strength -Great Chemical Resistance -Good Room/Cold Temperature Impact -ROHS/REACH Compliant -Low Flow 	<p>ADDITIONAL FORMULAS</p> <ul style="list-style-type: none"> -Added Release "R" -Added UV "U" 	<p>COLOR</p> <ul style="list-style-type: none"> -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/Extrusion
Form(s)	-Pellets
Availability	-North America, Europe, Asia, Latin America

ASTM / ISO Properties ¹

Physical	Nominal Value Unit	Test Method
Density	1.17 g/cm ³	ASTM D792
Melt Flow Rate (250°C/2.16kg)	14 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	1.0 to 1.3 %	TVT Internal
Outdoor Suitability (QUV)("U" Grades Only)	Pass	TVT Internal

Mechanical	Nominal Value Unit	Test Method
Tensile Strength, yld	7200 psi	ASTM D638
Tensile Elongation, brk	>150 %	ASTM D638
Flexural Modulus	250,000 psi	ASTM D790
Gardner Impact	425 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	112 R-Scale	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	228 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	192 °F	ASTM D648
CLTE - Flow	8.9E-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	