



TRIVALENCE

TriBLEND 14FR5 (U,R)

Polycarbonate + PBT

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General Information

Product Description

Flame retardant PC+PBT with superior impact properties.

FEATURES

- Flame Retardant
- Superior Impact
- Low Temperature Impact
- RoHS/REACH Compliant
- Chemical Resistant
- Medium Flow

ADDITIONAL FORMULAS

- Added Release
- Added UV

COLOR

- All
- Opaque/Translucent

General

- Typical Applications** -Electrical, lawn & garden, automotive, electronics, medical devices
- Processing Method** -Injection
- Form(s)** -Pellets
- Availability** -North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

Physical

	Nominal Value	Unit	Test Method
Density	1.3	g/cm ³	ASTM D792
Melt Flow Rate (260°C/2.16kg)	15	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	1.0 to 1.3	%	TVT Internal
Outdoor Suitability (QUV)("U" grades)	Pass		TVT Internal

Mechanical

	Nominal Value	Unit	Test Method
Tensile Strength, yld	7200	psi	ASTM D638
Tensile Elongation, brk	>100	%	ASTM D638
Flexural Modulus	350000	psi	ASTM D790
Gardner Impact	320	in-lbs	ASTM D5420
Rockwell Hardness	119	R-Scale	ASTM D785

Thermal

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	210	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	150	°F	ASTM D648
Vicat Softening Temperature	230	°F	ASTM D1525
CLTE - Flow	5.3E-5	in/in/°F	ASTM E831

Flammability

	Nominal Value	Unit	Test Method
0.06 in	V0		UL94 TVT Internal
0.10 in	V0/5V		UL94 TVT Internal

Recommended Processing Guidance

Drying Temperature	220 to 250	°F
Drying Time	3 to 6	Hours
Suggested Max Moisture	0.02	%
Processing Melt Temperature	480 to 510	°F
Mold Temperature	120 to 170	°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.