



TRIVALENCE

TriVALOY 12SU

Polycarbonate + ASA

General Information

Product Description

Polycarbonate + ASA with great weatherability.

FEATURES

- Excellent UV Performance
- High Impact
- Chemical Resistant
- ROHS/REACH Compliant
- Low to Medium Flow

ADDITIONAL FORMULAS

- Weatherable
- High Gloss

-Added Release "R"

COLOR

- All
- Opaque/Translucent

General

Typical Applications

-Appliance, lawn & garden, automotive, electronics, enclosures.

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

Physical

	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ASTM D792
Melt Flow Rate (260°C/5.0kg)	12	g/10min	ASTM D1238
Melt Flow Rate (220°C/10.0kg)	4	g/10min	ASTM D1239
Molding Shrinkage - Flow (3.2mm)	0.5 to 0.7	%	TVT Internal
Outdoor Suitability (QUV)	Pass		TVT Internal

Mechanical

	Nominal Value	Unit	Test Method
Tensile Strength, yld	8400	psi	ASTM D638
Tensile Elongation, brk	120	%	ASTM D638
Flexural Modulus	360000	psi	ASTM D790
Notched Izod Impact	8	ft-lbs/in	ASTM D256
Rockwell Hardness	112	R-Scale	ASTM D785

Thermal

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	240	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	205	°F	ASTM D648
Vicat Softening Temperature	235	°F	ASTM D1525
CLTE - Flow	4.0E-5	in/in/°F	ASTM E831

Flammability

	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 TVT Internal

Recommended Processing Guidance

Drying Temperature	190 to 200	°F
Drying Time	3 to 4	Hours
Suggested Max Moisture	0.02	%
Processing Melt Temperature	480 to 520	°F
Mold Temperature	130 to 160	°F