



TRIVALENCE

TriVALOY 12 (U,R)

Polycarbonate + ABS

General Information

Product Description

Polycarbonate + ABS with high impact.

FEATURES

- Low Flow
- Good Impact
- Chemical Resistant
- ROHS/REACH Compliant

ADDITIONAL FORMULAS

- Added Release "R"
- Added UV "U"

COLOR

- All
- Opaque/Translucent

General

Typical Applications

-Appliance, lawn & garden, automotive, electronics, medical devices, spools, housings

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ASTM D792
Melt Flow Rate (250°C/5.0kg)	10	g/10min	ASTM D1238
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	8000	psi	ASTM D638
Tensile Elongation, brk	120	%	ASTM D638
Flexural Modulus	345000	psi	ASTM D790
Gardner Impact	320	in-lbs	ASTM D5420
Notched Izod Impact	10	ft-lbs/in	ASTM D256
Rockwell Hardness	117	R-Scale	ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	252	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	220	°F	ASTM D648
Vicat Softening Temperature	248	°F	ASTM D1525
CLTE - Flow	4.1E-5	in/in/°F	ASTM E831
Flammability	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 TVT Internal
Recommended Processing Guidance			
Drying Temperature	180 to 215	°F	
Drying Time	2 to 4	Hours	
Suggested Max Moisture	0.02	%	
Processing Melt Temperature	480 to 540	°F	
Mold Temperature	135 to 185	°F	