



TRIVALENCE

TriVALOY 12LG (U,R)

Polycarbonate + ABS

General Information

Product Description

Polycarbonate + ABS with high impact and medium flow. Low Gloss.

FEATURES

- Low Gloss
- High Impact
- Chemical Resistant
- ROHS/REACH Compliant
- Medium Flow

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

Form(s)

-Pellets

Availability

-North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ASTM D792
Melt Flow Rate (260°C/5.0kg)	14	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.5 to 0.7	%	TVT Internal
Outdoor Suitability (QUV)	Pass		TVT Internal
Gloss	50%		untextured 60 degrees ASTM D523
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	7000	psi	ASTM D638
Tensile Elongation, brk	80	%	ASTM D638
Flexural Modulus	320000	psi	ASTM D790
Gardner Impact	320	in-lbs	ASTM D5420
Notched Izod Impact	8	ft-lbs/in	ASTM D256
Rockwell Hardness	118	R-Scale	ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	245	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	215	°F	ASTM D648
Vicat Softening Temperature	245	°F	ASTM D1525
CLTE - Flow	3.9E-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		