



**TRIVALENCE**

# TriVALOY 23PHS

**Polycarbonate + ABS**

**General Information**

**Product Description**

Polycarbonate + ABS with high impact and medium flow. Paintable and Plateable.

**FEATURES**

- Paintable/Plateable
- High Impact
- Chemical Resistant
- ROHS/REACH Compliant
- Medium Flow
- Hydrolytically Stable
- Suitable for outdoor use

**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 Properties<sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (260°C/5.0kg)	22	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	7500	psi	ASTM D638
Tensile Elongation, brk	120	%	ASTM D638
Flexural Modulus	330000	psi	ASTM D790
Gardner Impact	320	in-lbs	ASTM D5420
Notched Izod Impact	12	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)	250	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	218	°F	ASTM D648
Vicat Softening Temperature	260	°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	