



**TRIVALENCE**

# TriVALOY 21E

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## Polycarbonate + ABS

### General Information

#### Product Description

Polycarbonate + ABS with good impact and low flow.

#### 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

#### Form(s)

-Pellets

#### Availability

-North America, Europe, Asia, Latin America

### ASTM / ISO Properties<sup>1</sup>

#### Physical

	Nominal Value	Unit	Test Method
Density	1.15	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (230°C/2.16kg)	5	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	7400	psi	ASTM D638
Tensile Elongation, brk	50	%	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	117	R-Scale	ASTM D785

#### Thermal

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	235	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	212	°F	ASTM D648
Vicat Softening Temperature	240	°F	ASTM D1525
CLTE - Flow	4.4E-5	in/in/°F	ASTM E831

#### Flammability

	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 TVT Internal

#### Recommended Processing Guidance

	Nominal Value	Unit
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

<sup>1</sup> 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.