



TRIVALENCE

TriVALOY 21G10E

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Polycarbonate + ABS

General Information

Product Description

Glass reinforced polycarbonate + ABS with low flow and good stiffness.

FEATURES

- Good Heat Resistance
- Good Stiffness
- Medium Impact
- ROHS/REACH Compliant
- 10% Glass Fiber Reinforced

ADDITIONAL FORMULAS

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

COLOR

- All
- Opaque

General

Typical Applications

-Automotive, housings

Processing Method

-Injection

Form(s)

-Pellets

Availability

-North America, Europe, Latin America

ASTM / ISO Properties¹

Physical

	Nominal Value	Unit	Test Method
Density	1.2	g/cm ³	ISO 1183
Melt Flow Rate (260°C/5.0kg)	20	g/10min	ISO 1133
Melt Flow Rate (230°C/3.0kg)	4	g/10min	ISO 1133
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.7	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal

Mechanical

	Nominal Value	Unit	Test Method
Tensile Strength, brk	63	MPa	ISO 527
Tensile Elongation, brk	2	%	ISO 527
Flexural Modulus	3,500	MPa	ISO 178
Tensile Modulus	5200	MPa	ISO 527
Notched Izod Impact, RT	8	kJ/m ²	ISO 179

Thermal

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	120	°C	ISO 75
Deflection Temperature Under Load (1.8 MPa)	114	°C	ISO 75
Vicat Softening Temperature	119	°C	ISO 306

Flammability

	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 TVT Internal

Recommended Processing Guidance

Drying Temperature	90 to 120 °C
Drying Time	4 to 5 Hours
Suggested Max Moisture	0.02 %
Processing Melt Temperature	240 to 270 °C
Mold Temperature	125 to 170 °C

¹ 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.