TRIVALENCE

TriVALOY 21E

Polycarbonate + ABS

General Information

Product Description

Polycarbonate + ABS with good impact and low flow.

FEATURES	ADDITIONAL FORMULAS	COLOR
-Low Flow	-Added Release "R"	-All
-Good Impact	-Added UV "U"	-Opaque/Translucent
-Chemical Resistant		
-ROHS/REACH Compliant		

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[1]

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm³	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			
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	