



TRIVALENCE

TriVALOY 22FR0 HF

Polycarbonate + ABS

General Information

Product Description

UL certified non halogenated flame retardant product is available in various melt flow ranges.

FEATURES

- Flame Retardant
- High Impact
- UV Stabilized
- ROHS/REACH Compliant
- Non-halogenated/Non-Brominated/Non-Chlorinated
- Chemical Resistant
- High Flow

ADDITIONAL FORMULAS

- Added Release
- Additional Melt Flows

COLOR

- All
- Opaque/Translucent



General

- | | |
|-----------------------------|---|
| Typical Applications | -Appliance, electrical, lawn & garden, automotive, electronics, medical devices |
| Processing Method | -Injection |
| Form(s) | -Pellets |
| Availability | -North America, Europe, Asia, Latin America |

ASTM / ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ASTM D792
Melt Flow Rate (260°C/5.0kg)	35	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	8400	psi	ASTM D638
Tensile Elongation, brk	>60	%	ASTM D638
Flexural Modulus	345000	psi	ASTM D790
Gardner Impact	320	in-lbs	ASTM D5420
Rockwell Hardness	117	R-Scale	ASTM D785

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	210	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	198	°F	ASTM D648
Vicat Softening Temperature	208	°F	ASTM D1525
RTI Elec	140	°F	UL 746
RTI IMP	140	°F	UL 746
RTI Str	140	°F	UL 746
CLTE - Flow	4.3E-5	in/in/°F	ASTM E831

Flammability	Nominal Value	Unit	Test Method
0.06 in	V0		UL94 File E494706
0.10 in	V0, 5VA		UL94 File E494706

Recommended Processing Guidance

- | | |
|-----------------------------|---------------|
| Drying Temperature | 165 to 185 °F |
| Drying Time | 3 to 6 Hours |
| Suggested Max Moisture | 0.03 % |
| Processing Melt Temperature | 460 to 500 °F |
| Mold Temperature | 130 to 170 °F |