



Technical Specs

Property	Unit	ASTM	Value
Physical			
Specific gravity		D792-60T	0.940-0.942
Molecular Weight			2.8x10 ⁶
Mechanical			
Tensile Strength, 73°F	PSI	D638-61T	5400
Elongation	%	D638-61T	450
Izod Impact Strength, 73°F	ft-lb/in	D256-56	18
Abrasion Resistance (10,000 cyc)	gm	D1044	.008
Coefficient of Friction against Steel			.11
Deformation under load (2000 psi for 6 hrs @ 125°F)	%	D621	6-8
Hardness, 73°F	Rockwell R	D785	62
Tensile Modulus (73°F)	PSI	D638	80,000-100,000
Thermal			
Heat deformation temperature (66 psi)	°F		156
Electrical			
Dissipation Factor - 100 hz to 1 x 10 ⁶ hz		D150-59T	.0003-.0002
Dielectric Constant - 100 hz to 1 x 10 ⁶ hz		D150-59T	2.34-2.30
Dielectric Strength	V/mil	D149-55T	710
Volume Resistivity	ohm-cm	D149-57T	>10 ¹⁶

Product Description

Fluoroloy G is a polymer with exceptional toughness and abrasion resistance. **Fluoroloy G** has excellent low temperature impact strength. Its chemical resistance, electrical and mechanical properties are excellent. Recommended for mechanical applications subjected to repeated high shock loads and abrasion.

For more information on this or other high performance polymers from TriStar Plastics, contact our engineering department at 1-800-TRISTAR or visit our website at www.tstar.com. Fluoroloy is a registered trademark of Saint-Gobain Performance Plastics.

Performance Properties

1. FDA approved for food contact.
2. Better abrasion resistance than carbon steel, bronze and ALL other plastics.
3. Retains "form-stability" over light stress and temperatures to 275°F.
4. Low friction makes G an excellent bearing material. Exhibits better PV values at 600-700 ft/min than at lower speeds. This is unlike other plastics.
5. Outstanding chemical resistance except with strong oxidizing agents. Aromatic hydrocarbons cause only slight swelling.
6. Excellent electrical properties.
7. Low weight.
8. Cryogenic properties are excellent. Exhibits very little change in elongation from ambient to -423°F.
9. Burning rate - very slow.

Forms Available

Shape	Standard Length	Outside Diameter	Tolerances
Extruded Rods	6'	3/8" to 2"	Centerless Ground
Molded Rods	4" and 6"	2" to 12"	Molded rods and tubes have sufficient extra stock to allow for a clean-up machine cut.
Molded Tubes	4" and 6"	2" to 28"	

Sheets and plate are available in thickness from 3/32" through 2" and in sizes 12" x 12"

Extruded tube to 2" OD is available on special order.

Skived tape available in thickness from .005" through .060" and up to 24" widths.

We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



Ultracomp[®]

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



TriSteel[™]

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



Rulon[®]

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



Enhanced Materials Division

- Plasma Surface Treatment
- Asymmetric & Symmetric Filtration Membranes
- Specialized Primers & Coatings
- Material ID & Selection



TriStar



Engineered Plastic Solutions[™]

tstar.com

1.800.874.7827

©TriStar Plastics Corp. All rights reserved. Ultracomp is a registered trademark and TriSteel is a trademark of TriStar Plastics Corp. Rulon is a registered trademark of Saint-Gobain Performance Plastics Corporation.