

# Material Data Sheet

## Fluoroloy® A12

### Features/Benefits:

- Excellent wear and heat resistance
- Non-abrasive
- Recommended for moderate to high speed service running against soft or hard metals
- Performs well against lubricated and non-lubricated surfaces

The table below represents typical values

Properties <sup>1</sup>	ASTM	Value	Units
<b>PHYSICAL</b>			
Specific Gravity	D792	1.95	-
<b>MECHANICAL</b>			
Tensile Strength	D4894	23.4 [3,400]	MPa [psi]
Tensile Modulus	D4894	441 [64,000]	MPa [psi]
Elongation	D4894	230	%
Compression Strength <sup>2</sup>	D695	13.1 [1,900]	MPa [psi]
Compressive Modulus	D695	827 [120,000]	MPa [psi]
Deformation Under Load <sup>3</sup>	D621	8.5	%
Hardness	D2240	58	Shore D
Coefficient of Friction	D3702	0.09	-
<b>THERMAL</b>			
Thermal Conductivity	D435	$5.9 \times 10^{-4}$ [1.7]	Cal/(cm-sec °C) [BTU-in/(hr-ft <sup>2</sup> °F)]
Flammability	D635	in./min.	non-flammable

1. All testing is performed at room temperature unless otherwise specified.
2. Compression Strength was measured at 1% Strain.
3. Deformation Under Load was tested at 13.8 MPa [2,000 psi] for 24 hours

**NOTE:** The data listed falls within the normal range of properties but should not be used to establish specification limits nor used solely as the basis of design. Saint-Gobain Performance Plastics assumes no obligation or liability for any advice furnished by the Company or for results obtained with respect to the products.

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