

Material Data Sheet

Fluoroloy® A16

Features/Benefits:

- Color: Dark Gray
- Particularly suitable for water and steam service
- Excellent general purpose material for heat and wear resistance
- Recommended for dry and poorly lubricated applications
- Working Temperature Range: -268° to +260°C [-450° to +500°F]

The table below represents typical values

Properties ¹	ASTM	Value	Units
PHYSICAL			
Specific Gravity	D792	2.13	-
MECHANICAL			
Tensile Strength	D1708	20.7 [3,000]	MPa [psi]
Tensile Modulus	D638	386 [56,000]	MPa [psi]
Elongation	D1708	200	%
Compression Strength ²	D695	13.1 [1,900]	MPa [psi]
Compressive Modulus	D695	758 [110,000]	MPa [psi]
Deformation Under Load ³	D621	7	%
Hardness	D2240	60	Shore D
THERMAL			
Linear Coefficient of Thermal Expansion 26° to 200°C [78° to 392°F] Mold Direction Cross Direction	D696	12.9x10 ⁻⁵ [7.17x10 ⁻⁵] 12.6x10 ⁻⁵ [7.00x10 ⁻⁵]	mm/mm/°C [in/in/°F] mm/mm/°C [in/in/°F]

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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