

Material Data Sheet

Fluoroloy® A09

Features/Benefits:

- Color: Gold
- Extremely tough, long wearing material
- Limited heat and chemical resistance
- Excellent in water and water-based fluids, particularly suitable for abrasive media
- Recommended for long wear life under severe conditions
- Working Temperature Range: -268° to +82°C [-450° to +180°F]

The table below represents typical values

Properties ¹	ASTM	Value	Units
PHYSICAL			
Specific Gravity	D792	0.94	-
MECHANICAL			
Tensile Strength	D638	31.0 [4,500]	MPa [psi]
Tensile Modulus	D638	531 [77,000]	MPa [psi]
Elongation	D638	230	%
Compression Strength ²	D695	6.21 [900]	MPa [psi]
Compressive Modulus	D695	531 [77,000]	MPa [psi]
Deformation Under Load ³	D621	10	%
Hardness	D2240	62	Shore D
Coefficient of Friction	D3702	0.11	-
THERMAL			
Linear Coefficient of Thermal Expansion 26° to 200°C [78° to 392°F] Mold Direction Cross Direction	E831	14.7x10 ⁻⁵ [8.17x10 ⁻⁵] 21.3x10 ⁻⁵ [11.8x10 ⁻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.

Saint-Gobain Performance Plastics – Seals

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