Omniseal Solutions
SAINT-GOBAIN

BEYOND
the boundaries of possible

MATERIAL COMPARISON

FLUOROLOY® FLUOROPOLYMERS

Fluoroloy® Grades	Grade	A01	A08	A09	A12	A15	A16	A22	A30
	Color	White	Tan	Gold	Lt.Brown	Dk.Gray	Dk.Gray	Tan	Yellow
Physical	Specific Gravity	2.16	2.03	0.94	1.95	2.23	2.13	1.3	2.19
	Tensile Strength (psi)	4.000	3.000	4,500	2.000	3.400	3.000	13.780	2.700
	Tensile Modulus (psi)	56.000	55.000	77.000	-	64.000	56.000	580.150	62.000
	Elongation (%)	300	230	230	180	230	200	30	220
Mechanical	Compressive Strength[2] (psi)	1.200	1.000	900	1.000	1.900	1.900	20.000	1.900
	Compressive Modulus (psi)	81.000	95.000	77.000	-	120.000	110.000	354.000	128.000
	Deformation Under Load[3] (%)	81.000	8.3	10	3	8.5	7	0.03	7.2
	Hardness Shore D	50-65	60	62	60	58	60	90	60
	Coefficient of friction	0.05-0.08	0.2	0.11	0.12	0.09	-	0.4	0.09
Thermal	LC.o.T.E4 (n/In/°F) Mold Dir. (n/In/°F)	$7.22x10^{-5}$	$7.05x10^{-5}$	$8.17x10^{-5}$	-	$7.17x10^{-5}$	$7.17x10^{-5}$	$3.09x10^{-5}$	$3.09x10^{-5}$
	LC.o.T.E4 (n/In/°F) Cross Dir. (n/In/°F)	$8.44x10^{-5}$	$7.36x10^{-5}$	$11.8x10^{-5}$	-	$5.19x10^{-5}$	$7.00x10^{-5}$	$4.36x10^{-5}$	$3.09x10^{-5}$
	Working Temp. Range (°F)	-450° to +600°F	-450° to +550°F	-450° to +180°F	-450° to +550°F	-450° to +600°F	-450° to +500°F	Up to +260°F	-450° to +600°F

- All testing was performed at room temperature unless otherwise specified.
  Fluoroloy® is a registered trademark of Omniseal Solutions™.
- Compression strength was measured at 1% strain.
- Deformation under load was tested at 2,000 psi for 24 hours.
- Linear Coefficient of Thermal Expansion - 78°F to 392°F.

SAINT-GOBAIN

Omniseal Solutions™
help@omniseal-solutions.com
www.omniseal-solutions.com