

Saint-Gobain Fluoroloy® A01 High Performance Seal Material

Category : Polymer , Thermoplastic

Material Notes:

Excellent for light dynamic and static service; Limited wear and heat resistance; Low gas permeability; Good cryogenic properties; Moderate to hard vacuum service; FDA approved. Information provided by Saint-Gobain Performance Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Fluoroloy-A01-High-Performance-Seal-Material.php

Physical Properties	Metric	English	Comments
Density	2.16 g/cc	0.0780 lb/in ³	ASTM D792
Deformation	10 % @Time 86400 sec	10 % @Time 24.0 hour	13.8 MPa (2000 psi) load; ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50 - 65	50 - 65	ASTM D2240
Tensile Strength	27.5 MPa	3990 psi	ASTM D1708
Elongation at Break	300 %	300 %	ASTM D1708
Tensile Modulus	0.386 GPa	56.0 ksi	ASTM D638
Compressive Yield Strength	8.27 MPa @Strain 1.00 %	1200 psi @Strain 1.00 %	ASTM D695
Compressive Modulus	0.558 GPa	80.9 ksi	ASTM D695
Coefficient of Friction	0.05 - 0.08	0.05 - 0.08	ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 26.0 - 200 $\text{Å}^\circ\text{C}$	72.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 78.8 - 392 $\text{Å}^\circ\text{F}$	Mold Direction; ASTM D696
CTE, linear, Transverse to Flow	152 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 26.0 - 200 $\text{Å}^\circ\text{C}$	84.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 78.8 - 392 $\text{Å}^\circ\text{F}$	ASTM D696
Maximum Service Temperature, Air	260 $\text{Å}^\circ\text{C}$	500 $\text{Å}^\circ\text{F}$	
Minimum Service Temperature, Air	-268 $\text{Å}^\circ\text{C}$	-450 $\text{Å}^\circ\text{F}$	

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

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