

Process Technologies Inc Sanifluor® 1000 Formulated Aflas® Elastomer

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE)

Material Notes:

O-Rings, Gaskets and Seals produced from Sanifluor® 1000 have excellent chemical, heat and steam resistance. They provide superior performance in hot water, steam and virtually all caustics; making them ideal for pharmaceutical, medical, biotechnology, food, beverage and cosmetic manufacturers who use steam or caustic chemicals or a combination of both in their sterilization processes. These very aggressive conditions can be too harsh for commonly used sealing materials such as Silicone, EPDM and FKM. Sanifluor® provides excellent performance in SIP (steam in place), CIP (clean in place) and WFI (water for injection) applications. Sanifluor® 1000 is formulated for use in gaskets and seals where both USP and FDA compliance is required.** It also complies with 3-A Sanitary Standard for multiple-use rubber materials. Sanifluor® 1000 meets the extractive requirements of FDA 21CFR177.2600. Information provided by Process Technologies Inc

Order this product through the following link:

http://www.lookpolymers.com/polymer_Process-Technologies-Inc-Sanifluor-1000-Formulated-Aflas-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 g/cc	ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength at Break	17.9 MPa	2600 psi	ASTM D1412
Elongation at Break	170 %	170 %	ASTM D1414
50% Modulus	0.00583 GPa	0.845 ksi	ASTM D1414
100% Modulus	0.0118 GPa	1.71 ksi	ASTM D1414
Compression Set	30 % @Temperature 200 °C, Time 252000 sec	30 % @Temperature 392 °F, Time 70.0 hour	25% Deflection, in Air % of original deflection; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	230 °C	446 °F	
Minimum Service Temperature, Air	-5.00 °C	23.0 °F	

Descriptive Properties	Value	Comments
Color	Black	
Compatibility for Chemicals	Acetone	Not Recommended

Descriptive Properties	Ammonia Value	Not Recommended Comments
	Hydrochloric Acid	Excellent
	Hydrofluoric Acid	Good
	Hydrogen Peroxide	Excellent
	Isopropyl Alcohol	Excellent
	Nitric Acid	Good
	Phosphoric Acid	Excellent
	Sodium Hydroxide	Excellent
	Sodium Hypochlorite	Excellent
	Steam to 400°F (204°C)	Excellent
	Sulfuric Acid	Excellent

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