

Freudenberg Simrit N432 Nitrile Elastomer (NBR)

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

General Purpose; Internal Lubricant. Inferior resistance to ozone, sunlight and natural aging; poor resistance to oxygenated solvents. All testing done on AS568-214 size o-rings

Order this product through the following link:

http://www.lookpolymers.com/polymer_Freudenberg-Simrit-N432-Nitrile-Elastomer-NBR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	Original Properties; ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72	72	Original Properties; ASTM D2240
	63	63	MIL-H-5606 fluid immersion, 70 hours; ASTM D2240
	@Temperature 135 Å°C	@Temperature 275 Å°F	
Tensile Strength, Ultimate	70	70	MIL-H-83282 fluid immersion, 70 hours; ASTM D2240
	@Temperature 135 Å°C	@Temperature 275 Å°F	
	14.60 MPa	2118 psi	Original Properties; ASTM D1414
Elongation at Break	12.12 MPa	1758 psi	MIL-H-5606 fluid immersion, 70 hours; ASTM D1414
	@Temperature 135 Å°C	@Temperature 275 Å°F	
	13.43 MPa	1949 psi	MIL-H-83282 fluid immersion, 70 hours; ASTM D1414
100% Modulus	259 %	259 %	Original Properties; ASTM D1414
	202.02 %	202.02 %	MIL-H-83282 fluid immersion, 70 hours; ASTM D1414
	@Temperature 135 Å°C	@Temperature 275 Å°F	
Compression Set	238.28 %	238.28 %	MIL-H-5606 fluid immersion, 70 hours; ASTM D1414
	@Temperature 135 Å°C	@Temperature 275 Å°F	
	0.00405 GPa	0.588 ksi	Original Properties; ASTM D1414
Compression Set	20 %	20 %	MIL-H-5606 fluid immersion; ASTM D395
	@Temperature 135 Å°C, Time 252000 sec	@Temperature 275 Å°F, Time 70.0 hour	
	25.7 %	25.7 %	MIL-H-83282 fluid immersion; ASTM D395
	@Temperature 135 Å°C,	@Temperature 275 Å°F,	

Mechanical Properties	Time 252000 sec Metric	Time 70.0 hour English	Comments
Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-45.6 Å°C	-50.0 Å°F	Retraction Temperature, TR10; ASTM D1329
	-45.6 Å°C	-50.0 Å°F	Retraction Temperature, MIL-H-5606 fluid immersion for 70 hours at 275Å°F; ASTM D1329
	-43.9 Å°C	-47.0 Å°F	Retraction Temperature, MIL-H-83282 fluid immersion for 70 hours at 275Å°F; ASTM D1329

Descriptive Properties	Value	Comments
Corrosion and Adhesion	Slight	4130 Steel, Aircraft Quality, MIL-S-18729
Volume Change (%), ASTM D471	1.1	MIL-H-83282 fluid immersion for 70 hours at 275Å°F
	14.6	MIL-H-5606 fluid immersion for 70 hours at 275Å°F

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