

Freudenberg Simrit N475 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-N475-Nitrile-Elastomer-NBR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	73	73	Original Properties; ASTM D2240 (Z1)
	69	69	ASTM IRM 903 Oil Immersion, 70 hours; ASTM D2240
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	76	76	ASTM #1 Oil Immersion, 70 hours; ASTM D2240
@Temperature 150 Â°C	@Temperature 302 Â°F		
Tensile Strength, Ultimate	77	77	Air age, 70 hours; ASTM D2240
	@Temperature 125 Â°C	@Temperature 257 Â°F	
	18.7 MPa	2710 psi	Original Properties; ASTM D412 Die C
	11.407 MPa	1654.4 psi	ASTM IRM 903 Oil Immersion, 70 hours; ASTM D412 Die C
@Temperature 150 Â°C	@Temperature 302 Â°F		
Elongation at Break	15.147 MPa	2196.9 psi	ASTM #1 Oil Immersion, 70 hours; ASTM D412 Die C
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	20.009 MPa	2902.1 psi	Air age, 70 hours; ASTM D412 Die C
	@Temperature 125 Â°C	@Temperature 257 Â°F	
Compression Set	195 %	195 %	Original Properties; ASTM D412 Die C
	130.65 %	130.65 %	ASTM IRM 903 Oil Immersion, 70 hours; ASTM D412 Die C
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	152.1 %	152.1 %	ASTM #1 Oil Immersion, 70 hours; ASTM D412 Die C
@Temperature 150 Â°C	@Temperature 302 Â°F		
Compression Set	165.75 %	165.75 %	Air age, 70 hours; ASTM D412 Die C
	@Temperature 125 Â°C	@Temperature 257 Â°F	
	5.2 %	5.2 %	ASTM D395
	@Temperature 100 Â°C,	@Temperature 212 Â°F,	

Mechanical Properties	Time 79200 sec Metric	Time 22.0 hour English	Comments
Descriptive Properties	Value	Comments	
Volume Change (%), ASTM D471	-0.9	ASTM #1 Oil Immersion, 70 hours at 150Â°C	
	14.3	ASTM IRM 903 Oil Immersion, 70 hours at 150Â°C	

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