

Freudenberg Simrit N442 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-N442-Nitrile-Elastomer-NBR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	Original Properties; ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	74	74	Original Properties; ASTM D2240
	74	74	Chloramine Solution Immersion 50 ppm Chloramine, 2 weeks; ASTM D2240
	@Temperature 70.0 Å°C	@Temperature 158 Å°F	
	74	74	Chloramine Solution Immersion 50 ppm Chloramine, 4 weeks; ASTM D2240
	@Temperature 70.0 Å°C	@Temperature 158 Å°F	
	75	75	Chloramine Solution Immersion 50 ppm Chloramine, 8 weeks; ASTM D2240
	@Temperature 70.0 Å°C	@Temperature 158 Å°F	

Descriptive Properties	Value	Comments
Bend around 1/8th Inch Mandrel	no cracking	
Volume Change (%), ASTM D471	2	Chloramine Solution Immersion 50 ppm Chloramine, 2 weeks at 70Å°C
	2.6	Chloramine Solution Immersion 50 ppm Chloramine, 4 weeks at 70Å°C
	3.8	Chloramine Solution Immersion 50 ppm Chloramine, 8 weeks at 70Å°C

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