

Freudenberg Simrit N466 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-N466-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	65	65	Original Properties; ASTM D2240
	79	79	Air Aging, 70 hours; ASTM D2240
	@Temperature 125 Â°C	@Temperature 257 Â°F	
Tensile Strength, Ultimate	12.74 MPa	1848 psi	Original Properties; ASTM D1414
	14.91 MPa	2162 psi	Air Aging, 70 hours; ASTM D1414
	@Temperature 125 Â°C	@Temperature 257 Â°F	
Elongation at Break	377 %	377 %	Original Properties; ASTM D1414
	233.74 %	233.74 %	Air Aging, 70 hours; ASTM D1414
	@Temperature 125 Â°C	@Temperature 257 Â°F	
Compression Set	71 %	71 %	AS 568-214; ASTM D395
	@Temperature 125 Â°C, Time 252000 sec	@Temperature 257 Â°F, Time 70.0 hour	
	74 %	74 %	AS 568-018; ASTM D395
	@Temperature 125 Â°C, Time 252000 sec	@Temperature 257 Â°F, Time 70.0 hour	
	79 %	79 %	AS 568-120; ASTM D395
	@Temperature 125 Â°C, Time 252000 sec	@Temperature 257 Â°F, Time 70.0 hour	

Descriptive Properties	Value	Comments
Bend (flat)	Pass	AMS 7271H
Corrosion and	Pass	

Adhesion Descriptive	Value	AMS-7271H Comments
Properties		
Dry Neckdown Test	Pass	AMS-7271H
Volume Change (%), ASTM D471	10	ASTM Reference Fuel A Immersion, 70 hours at 75Â°F
	-10	ASTM Reference Fuel B Immersion, 70 hours at 75Â°F plus 48 hours at 158Â°F dry-out
	51	ASTM Reference Fuel B Immersion, 70 hours at 75Â°F
	7	ASTM Reference Fuel B Immersion, 70 hours at 75Â°F plus 48 hours at 158Â°F dry-out plus ASTM Reference Fuel A Immersion for 5 hours at 75Â°F
Wet Neckdown Test	Pass	AMS-7271H

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