Compound

3725

NITRILE - BUTADIENE
70 DUROMETER - WHITE COLOR
FDA SANCTIONED MATERIALS

PRODUCT DATA SHEET

Compound 3725 is a 70 durometer white colored Buna N elastomer, it is formulated with FDA sanctioned materials. It exhibits good resistance to petroleum based oils a medium temperature. This compound is suitable for milk and edible oils.

This compound will meet or exceed the specifications listed and has the following physical properties:

ASTM D2000 2 BF 712 EO14 EO34

2 BG 712 EO14 EO34 EA14 EF11 EF21
5 BG 710 A14 EO14 EO34

3-A Sanitary Standards 18-03 Class lll & lV
CFR 21 177.2600

This Compound is RoHS Compliant

Original Properties

Modulus @ 100% Elongation	318	psi	2.2	MPa
Tensile Strength	1510	psi	10.4	MPa
Ultimate Elongation	696	%		
Hardness, Shore A	71	Durometer		
Specific Gravity	1.49	grams/cc		
Brittleness Temperature	-9	°F	-23	°C
Tear Resistance, Die B	186	ppi	32.6	kN/m
Tear Resistance, Die C	190	ppi	33.3	kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	29.4	%
Solid: 22 hrs @ 257°F (125°C)	30.6	%
Solid: 70 hrs @ 212°F (100°C)	38.8	%
Plied: 22 hrs @ 212°F (100°C)	34.2	%
Plied: 22 hrs @ 257°F (125°C)	39.5	%
Plied: 70 hrs @ 212°F (100°C)	45.3	%

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 9.9 %
Change - Elongation	- 20.8 %
Change - Hardness, Shore A	0

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HEAT AGED: 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	- 8.9 %
Change - Elongation	- 34.6 %
Change - Hardness, Shore A	+ 3

DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)	
Change - Hardness, Shore A	- 2
Change - Volume	+ 5.6 %

ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 19.2 %
Change - Elongation	- 6.3 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 2.4 %

ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 58.6 %
Change - Elongation	- 31.2 %
Change - Hardness, Shore A	- 19
Change - Volume	+ 31.4 %

ASTM OIL #1 (IRM 901): 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	+ 14.6 %
Change - Elongation	- 6.5 %
Change - Hardness, Shore A	- 1
Change - Volume	- 3.6 %

ASTM OIL #3 (IRM 903): 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	+ 22.1 %
Change - Elongation	+ 8.9 %
Change - Hardness, Shore A	- 9
Change - Volume	+ 7.6 %

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