

Test data provided by raw material manufacturer or an ISO 17025 registered 3rd party lab. Original test data is stored in the Darcoïd Compound Database



6/13/2022

Darcoïd Compound: 1288

COMPOUND DATA SHEET

NBR, Black, 70±5 Shore A

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

ASTM D2000 2 BF 720 B14 B34 EO14 EO34 F19
2 BG 720 B14 B34 EA14 EF11 EF21 EO14 EO34 F17
3 BG 720 B14 F19
4 BG 720 B14 F19
5 BG 720 A14 B14 B34 EO14 EO34 F19
2 CH 720 A25 B14 B34 EO15 EO35 F17
3 CH 720 A25 B14 B34
5 CH 720 B14 B34 F14
6 CH 720 B14 B34 F17

MIL-STD-417 Type S Class SB 720 A1 B1 E1 E3 F2

ORIGINAL PROPERTIES	RESULT
Hardness, Shore A	70
Tensile Strength, psi	2118
Ultimate Elongation, %	320
Modulus at 100%, psi	642
Specific Gravity, g/cc	1.22
Brittleness Temperature, °F	-67
TR-10 Temperature, °F	-47
Tear Resistance, Die B, ppi	270
Tear Resistance, Die C, ppi	206

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COMPRESSION SET	RESULT
Solid: 22 hrs @ 212°F, %	7.7
Solid: 22 hrs @ 257°F, %	12.2
Solid: 22 hrs @ 302°F, %	23.8
Solid: 70 hrs @ 212°F, %	12.3
Plied: 22 hrs @ 212°F, %	13.7
Plied: 22 hrs @ 257°F, %	19.6
Plied: 22 hrs @ 302°F, %	31.6
Plied: 70 hrs @ 212°F, %	22.1

HEAT AGE, 70 HR @ 212°F	RESULT
Tensile Strength Change, %	+5.2
Elongation Change, %	-19.7
Hardness Change, pts	+5

HEAT AGE, 70 HR @ 257°F	RESULT
Tensile Strength Change, %	+13.4
Elongation Change, %	-38.4
Hardness Change, pts	+13

HEAT AGE, 70 HR @ 257°F, Test Tube Method	RESULT
Tensile Strength Change, %	+13.4
Elongation Change, %	-38.4
Hardness Change, pts	+13

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FLUID RESISTANCE		RESULT
Distilled Water: 70 h @ 212°F		
Hardness Change, pts		-1
Volume Change, %		+4.9
ASTM Fuel A, 70 h @ 73°F		
Tensile Strength Change, %		-12.6
Elongation Change, %		-9.1
Hardness Change, pts		-4
Volume Change, %		+5.3
ASTM Fuel B, 70 h @ 73°F		
Tensile Strength Change, %		-23.1
Elongation Change, %		-29.1
Hardness Change, pts		-12
Volume Change, %		+33.1
ASTM Fuel C, 70 h @ 73°F		
Tensile Strength Change, %		-43.2
Elongation Change, %		-50.3
Hardness Change, pts		-15
Volume Change, %		+63.8

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FLUID RESISTANCE (continued)	RESULT
ASTM Oil #1 (IRM 901), 70 h @ 212°F	
Tensile Strength Change, %	+12.4
Elongation Change, %	-8.4
Hardness Change, pts	+5
Volume Change, %	-8.1
ASTM Oil #1 (IRM 901), 70 h @ 257°F	
Tensile Strength Change, %	+15.6
Elongation Change, %	-20.6
Hardness Change, pts	+6
Volume Change, %	-7.4
ASTM Oil #1 (IRM 901), 70 h @ 302°F	
Tensile Strength Change, %	-18.8
Elongation Change, %	-49.7
Hardness Change, pts	+7
Volume Change, %	-6.2
ASTM Oil #3 (IRM 903), 70 h @ 212°F	
Tensile Strength Change, %	+9.2
Elongation Change, %	-5.6
Hardness Change, pts	-6
Volume Change, %	+13.5
ASTM Oil #3 (IRM 903), 70 h @ 257°F	
Tensile Strength Change, %	+1.0
Elongation Change, %	-20.0
Hardness Change, pts	-7
Volume Change, %	+16.5
ASTM Oil #3 (IRM 903), 70 h @ 302°F	
Tensile Strength Change, %	-36.8
Elongation Change, %	-44.4
Hardness Change, pts	-11
Volume Change, %	+21.6

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