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

DARCOID
More than a Seal. A Bond.

6/14/2022

Darcoid Compound: 1068

COMPOUND DATA SHEET

NBR 70±5 SHORE A, SELF LUBRICATED

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

ORIGINAL PROPERTIES	TEST RESULT
Hardness, Shore A	74
Tensile Strength, psi	2532
Ultimate Elongation, %	323
Modulus @ 50% Elongation	361
Modulus @ 100% Elongation	720
Tear Resistance, Die B, ppi	319
Tear Resistance, Die C, ppi	263
Specific Gravity g/cc	1.21

HEAT RESISTANCE, 70 HR @ 212°F	TEST RESULT
Hardness Change, pts	+1
Tensile Strength Change, %	+10.0
Elongation Change, %	-1.5

HEAT RESISTANCE, 70 HR @ 257°F	TEST RESULT
Hardness Change, pts	+16
Tensile Strength Change, %	+12.5
Elongation Change, %	-22.0

HEAT RESISTANCE, 70 HR @ 212°F (Test Tube Method)	TEST RESULT
Hardness Change, pts	+1
Tensile Strength Change, %	+10.0
Elongation Change, %	-1.5

HEAT RESISTANCE, 70 HR @ 257°F (Test Tube Method)	TEST RESULT
Hardness Change, pts	+16
Tensile Strength Change, %	+12.5
Elongation Change, %	-22.0

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REACH COMPLIANCE RoHS

COMPRESSION SET	TEST RESULT
Solid: 22 hr @ 212°F, %	4.3
Solid: 22 hr @ 257°F ,%	7.2
Solid: 70 hr @ 212°F ,%	7.8
Plied: 22 hr @ 212°F, %	7.9
Plied: 22 hr @ 257°F, %	12
Plied: 70 hr @ 212°F, %	13.2

FLUID RESISTANCE	TEST RESULT
Distilled Water, 70 h @ 212°F	
Hardness Change, pts	-2
Volume Change, %	+5.4
ASTM Reference Fuel A, 70 h @ 73°F	
Hardness Change, pts	0
Tensile Strength Change, %	+0.9
Elongation Change, %	+5.9
Volume Change, %	0.0
ASTM Reference Fuel B, 70 h @ 73°F	
Hardness Change, pts	-12
Tensile Strength Change, %	-37.3
Elongation Change, %	-39.3
Volume Change, %	+26.7
ASTM Oil #1 (IRM 901), 70 h @ 212°F	
Hardness Change, pts	+1
Tensile Strength Change, %	+9.6
Elongation Change, %	-1.5
Volume Change, %	+1
ASTM Oil #3 (IRM 903), 70 h @ 212°F	
Hardness Change, pts	-4
Tensile Strength Change, %	+4.4
Elongation Change, %	-2.5
Volume Change, %	+6.3

LOW TEMPERATURE RESISTANCE	
Brittleness Temperature, °F	-20
TR-10, °F	-18