

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



6/14/2022

Darcoïd Compound: 1079

COMPOUND DATA SHEET

NBR, 70±5 Shore A

ASTM D2000 M3 CH714 B14 EO16 EO36

ASTM D2000 M2 BG714 B14 EA14 EF11 EF21 EO14 EO34 F15

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

ORIGINAL PROPERTIES	TEST METHOD	RESULT
Hardness, Shore A	D-2240	70
Tensile Strength, MPa	D-412	14.5
Modulus @ 100% Elongation, MPa	D-412	3.8
Ultimate Elongation, %	D-412	340
Tear Resistance, N/mm	D-624	50
Density, g/cm ³	D-792	1.260

HEAT RESISTANCE	TEST METHOD	RESULT
70 HR @ 100°C	D-573	
Hardness Change, pts		+5
Tensile Strength Change, %		+9.5
Elongation Change, %		-29
Volume Change, %		-
Weight Change, %		-
70 HR @ 125°C	D-573	
Hardness Change, pts		+9
Tensile Strength Change, %		+15
Elongation Change, %		-33
Volume Change, %		-
Weight Change, %		-

COMPRESSION SET	TEST METHOD	RESULT
22 HR @ 100°C, %	D-395 METHOD B	10
70 HR @ 100°C, %	D-395 METHOD B	15
70 HR @ 125°C, %	D-395 METHOD B	28

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FLUID RESISTANCE	TEST METHOD	RESULT
IRM 901, 70 h @ 100°C	D-471	
Hardness Change, pts		+7
Tensile Strength Change, %		+17
Elongation Change, %		-19.5
Volume Change, %		-9
Weight Change, %		-6
IRM 901, 70 h @ 150°C	D-471	
Hardness Change, pts		+7
Tensile Strength Change, %		+15
Elongation Change, %		-25
Volume Change, %		-7.5
Weight Change, %		-5.5
IRM 902, 70 h @ 100°C	D-471	
Hardness Change, pts		+2
Tensile Strength Change, %		+7
Elongation Change, %		-5
Volume Change, %		-1.5
Weight Change, %		-0.7
IRM 903, 70 h @ 100°C	D-471	
Hardness Change, pts		-2
Tensile Strength Change, %		+5.5
Elongation Change, %		-20
Volume Change, %		+4
Weight Change, %		+2.3
IRM 903, 70 h @ 150°C	D-471	
Hardness Change, pts		-4
Tensile Strength Change, %		-34
Elongation Change, %		-25
Volume Change, %		+6
Weight Change, %		+3.5

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FLUID RESISTANCE	TEST METHOD	RESULT
Fuel A, 70 h @ 23°C	D-471	
Hardness Change, pts		-0.5
Tensile Strength Change, %		-9
Elongation Change, %		-16
Volume Change, %		+2.3
Weight Change, %		+1.2
Fuel B, 70 h @ 23°C	D-471	
Hardness Change, pts		-13
Tensile Strength Change, %		-36
Elongation Change, %		-43
Volume Change, %		+20.5
Weight Change, %		+13
Fuel C, 70 h @ 23°C	D-471	
Hardness Change, pts		-18
Tensile Strength Change, %		-50
Elongation Change, %		-52
Volume Change, %		40
Weight Change, %		23
Water, 70 h @ 100°C	D-471	
Hardness Change, pts		+1
Tensile Strength Change, %		--
Elongation Change, %		--
Volume Change, %		+2.6
Weight Change, %		+1.9

LOW TEMPERATURE RESISTANCE	TEST METHOD	RESULT
Brittle Point, °C	D-2137	-29
TR Test, °C	D-1329	
TR-10		-28
TR-30		-23
TR-50		-20
TR-70		-12
Glass Transition TG (DSC), °C	D-3418	-29

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