

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



5/4/2022

Darcoïd Compound 1131

## COMPOUND DATA SHEET

NBR, 70 Shore A

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

ASTM D2000 M3CA710 A25 EA14 F18 Z1 Z2 Z3 Z4 Z5

**This material complies with NSF 51, FDA and USP Class VI requirements.**

ORIGINAL PROPERTIES	SPEC	RESULT	EVAL
Hardness, Shore A, pts.	70±5	70	PASS
Tensile Strength, psi, min	1450	1508	PASS
(Z5) Elongation, %, min.	150	179	PASS

HEAT AGING	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 125°C	D-573			
Hardness Change, pts., max		±5	+1	PASS
Tensile Strength Change, %, max.		-20	-13.4	PASS
Elongation Change, %, max.		-15	-6.7	PASS

COMPRESSION SET	TEST METHOD	SPEC	RESULT	EVAL
22 HRS. @ 100°C	D-395			
Permanent Compression Set, %, max		+60	+3.6	PASS

HEAT AGING	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 100°C	D-865			
Hardness Change, pts., max		+10	+1	PASS
(Z4) Tensile Strength Change, %, max.		-40	-29.5	PASS
Elongation Change, %, max.		-40	-24.6	PASS

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WATER IMMERSION	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 100°C	D-471			
Hardness Change, pts.		-	-2	-
Volume Change, %		+1	+1	PASS

LOW TEMP BRITTLINESS	TEST METHOD	SPEC	RESULT	EVAL
3 min @ -50°C	D-2137 (Method A)			
		PASS	PASS	PASS

(Z1) COMPRESSION SET	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 150°C	D-395			
Deflection, %, max		+50	+29.3	PASS

(Z2) STEAM, 2-214 O-RINGS	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 150°C				
Hardness Change, pts.		±10	-5	PASS
(Z4) Tensile Strength Change, %, max.		-70	-56.3	PASS
Elongation Change, %, max.		-30	-28.6	PASS
Volume Change, %		±10	+5.3	PASS

(Z3) HEAT AGING	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 100°C	D-573			
Hardness Change, pts., max		±5	0	PASS
(Z4) Tensile Strength Change, %, max.		±20	+2.8	PASS
Elongation Change, %, max.		±20	-9.5	PASS

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