

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



3/25/2022

Darcoid Compound 1146

## COMPOUND DATA SHEET

Nitrile, 50 Shore A

This compound will meet or exceed the specifications listed and has the following physical properties:  
ASTM D2000 M2BG510 B34 EA14 EF11 EF21 EO34 Z1 Z2

ORIGINAL PROPERTIES	TEST METHOD	SPEC	RESULT	EVAL
Hardness, Shore A, pts.	D-2240	50±5	52	PASS
Tensile Strength, min, PSI	D-412	1450	2152	PASS
Elongation, min. %	D-412	300	663	PASS
(Z1) Specific Gravity	D-297		1.16	PASS

HEAT AGED RESISITANCE	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 212°F	D-573			
Hardness Change, pts.		±15	+3	PASS
Tensile Strength Change, %		±30	+8	PASS
Elongation Change, %		-50	-18	PASS

COMPRESSION SET (B34)	TEST METHOD	SPEC	RESULT	EVAL
22 HRS. @ 212°F	D-395-B			
Original Deflection, max		+25	+18	PASS

FLUID RESISTANCE, WATER (EA14)	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 212°F	D-471			
Hardness Change, pts.		±10	-2	PASS
Volume Change, %		±15	+1	PASS

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FLUID RESISTANCE, FUEL A (EF11)	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 73°F	D-471			
Hardness Change, pts.		±10	-3	PASS
Tensile Strength Change, %		-25	-4	PASS
Elongation Change, %		-25	+1	PASS
Volume Change, %		-5 to +10	+2	PASS

FLUID RESISTANCE, FUEL B (EF21)	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 73°F	D-471			
Hardness Change, pts.		-30 to 0	-16	PASS
Tensile Strength Change, %		-60	-49	PASS
Elongation Change, %		-60	-42	PASS
Volume Change, %		0 to +40	+33	PASS

FLUID RESISTANCE,IRM 903 OIL (EO34)	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 212°F	D-471			
Hardness Change, pts.		-10 to +5	-2	PASS
Tensile Strength Change, %		-45	+12	PASS
Elongation Change, %		-45	-7	PASS
Volume Change, %		0 to +25	+4	PASS

LOW TEMP RESISTANCE (Z2)	TEST METHOD	SPEC	RESULT	EVAL
	D-1329			
TR-10, Temperature °F		report	-40	PASS

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