

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



3/25/2021

Darcoïd Compound: 1042

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 A14 B14 EA14 EF11 EF21 EO14 EO34

ORIGINAL PROPERTIES	TEST METHOD	SPEC	RESULT	EVAL
Hardness, Shore A, pts.	D-2240	50±5	55	PASS
Tensile Strength, min, Mpa	D-412	10	12.7	PASS
Elongation, min. %	D-412	300	597	PASS
Tear Resistance, Kg/cm	D-612 (Die C)	-	42	-
Specific Gravity, g/cm ³	-	-	1.168	-

A14 (HEAT AGED RESISITANCE)	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 100°C	D-573			
Hardness Change, pts.		±15	+1	PASS
Tensile Strength Change, %		±30	-3	PASS
Elongation Change, %		-50	-14	PASS
Volume Change, %		-	-1	-

B14 (COMPRESSION SET)	TEST METHOD	SPEC	RESULT	EVAL
22 HRS. @ 100°C	D-395			
Percent of Original Deflection, max		+25	+21	PASS

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EA14 (WATER RESISTANCE TEST)	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 100°C	D-471			
Hardness Change, pts.		±10	-4	PASS
Tensile Strength Change, %		-	-14	PASS
Elongation Change, %		-	-17	PASS
Volume Change, %		±15	+8	PASS

EO14 (OIL IRM 901 RESISTANCE TEST)	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 100°C	D-471			
Hardness Change, pts.		-5 to +10	+4	PASS
Tensile Strength Change, %		-25	+19	PASS
Elongation Change, %		-45	-8	PASS
Volume Change, %		-10 to +5	-7	PASS

EO34 (OIL IRM 903 RESISTANCE TEST)	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 100°C	D-471			
Hardness Change, pts.		-10 to +5	-7	PASS
Tensile Strength Change, %		-45	-10	PASS
Elongation Change, %		-45	-16	PASS
Volume Change, %		0 to +25	+9	PASS

EF11 (FUEL A, RESISTANCE, TEST)	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 23°C	D-471			
Hardness Change, pts.		±10	-2	PASS
Tensile Strength Change, %		-25	-20	PASS
Elongation Change, %		-25	-18	PASS
Volume Change, %		-5 to +10	+3	PASS

EF21 (FUEL B, RESISTANCE, TEST)	TEST METHOD	SPEC	RESULT	EVAL
70 HRS. @ 23°C	D-471			
Hardness Change, pts.		-30 to 0	-18	PASS
Tensile Strength Change, %		-60	-59	PASS
Elongation Change, %		-60	-53	PASS
Volume Change, %		0 to +40	+34	PASS

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