

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



5/27/2022

Darcoïd Compound: 1270

COMPOUND DATA SHEET

Nitrile, 75 Shore A

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

ASTM D2000 M7BG810 B14 EA14 E014 E034 F17 Z1 Z2

Z1 = 75 ± 5 Hardness Shore A, Z2 = TR-10

ORIGINAL PROPERTIES	SPEC	RESULT	EVAL
Hardness, Shore A, pts.	75±5	70	PASS
Tensile Strength, min, Psi.	1431	1870	PASS
Elongation, min. %	125	160	PASS

HEAT AGING	SPEC	RESULT	EVAL
70 HRS. @ 100°C			
Hardness Change, pts.	±15	+8	PASS
Tensile Strength Change, %	±30	-6.3	PASS
Elongation Change, %	-50	-21.2	PASS

EA14 (FLUID IMMERSION, WATER)	SPEC	RESULT	EVAL
70 HRS. @ 100°C			
Hardness Change, pts.	±10	+3	PASS
Volume Change, %	±15	0	PASS

EO14 (FLUID IMMERSION, ASTM OIL #1)	SPEC	RESULT	EVAL
70 HRS. @ 100°C			
Hardness Change, pts.	-5 to +10	+7	PASS
Tensile Strength Change, %	-25	+13	PASS
Elongation Change, %	-45	+3	PASS
Volume Change, %	-10 to +5	-7	PASS

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EO34 (FLUID IMMERSION, ASTM OIL #3)	SPEC	RESULT	EVAL
70 HRS. @ 100°C			
Hardness Change, pts.	-10 to +5	-8	PASS
Tensile Strength Change, %	-45	0	PASS
Elongation Change, %	-45	0	PASS
Volume Change, %	0 to +25	+17	PASS

B34 (COMPRESSION SET)	SPEC	RESULT	EVAL
22 HRS. @ 100°C			
Percent of Original Deflection, max	+25	+12	PASS

F17 LOW-TEMPERATURE BRITTLENESS	SPEC	RESULT	EVAL
ASTM D2137			
3 min @ -40°C	-	PASS	PASS

Z2 TR-10°F	SPEC	RESULT	EVAL
ASTM D1329, max	-49	-55	PASS

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