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

DARCOID
More than a Seal. A Bond.

3/28/2022

Darcoid Compound: 1027

COMPOUND DATA SHEET

NBR, 70±5 Shore A
Temperature Range: -40°F to 250°F
ASTM D2000 M2BG714B14 EA14 EF11 EF21 EO14 EO34 Z1=TR10

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

ORIGINAL PROPERTIES	SPEC	RESULT	EVAL
Hardness, Shore A	70±5	70	PASS
Tensile Strength, psi	2031 min	2476	PASS
Ultimate Elongation, %	250 min	385	PASS
Specific Gravity	--	1.24	--

HEAT AGING	SPEC	RESULT	EVAL
70h @ 100°C			
Hardness Change, pts	±15	+1	PASS
Tensile Strength Change, %	±30	+4	PASS
Elongation Change, %	-50	-16	PASS

COMPRESSION SET	SPEC	RESULT	EVAL
22h @ 100°C	25	16.7	PASS

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REACH COMPLIANCE RoHS

FLUID RESISTANCE	SPEC	RESULT	EVAL
Water, 70h @ 100°C			
Hardness Change, pts	±10	+2	PASS
Volume Change, %	±15	+6.2	PASS
FUEL A RESISTANCE, 70h @ 23°C			
Hardness Change, pts	-10 to +5	+1	PASS
Tensile Strength Change, %	-25	-6.3	PASS
Elongation Change, %	-25	-2.3	PASS
Volume Change, %	-5 to +10	+1.5	PASS
FUEL B RESISTANCE, 70h @ 23°C			
Hardness Change, pts	0 to -30	-7	PASS
Tensile Strength Change, %	-60	-37.8	PASS
Elongation Change, %	-60	-26.2	PASS
Volume Change, %	0 to +40	+21.1	PASS
ASTM #1 OIL, 70h @ 100°C			
Hardness Change, pts	-5 to +10	+2	PASS
Tensile Strength Change, %	-25	+3.2	PASS
Elongation Change, %	-45	-12.8	PASS
Volume Change, %	-10 to +5	-3.7	PASS
ASTM #3 OIL, 70h @ 100°C			
Hardness Change, pts	-10 to +5	-5	PASS
Tensile Strength Change, %	-45	-10	PASS
Elongation Change, %	-45	-11.4	PASS
Volume Change, %	0 to +25	+7.8	PASS

LOW TEMPERATURE RESISTANCE	SPEC	RESULT	EVAL
TR-10, °C	--	-31.9	--