

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



6/17/2022

Darcoïd Compound 4040

## COMPOUND DATA SHEET

FKM, 75 Shore A

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

ASTM D2000 M2HK710 A1-10 B37 B38 EF 31 E078 Z1 Z2

Z1= Shore A Hardness 75 +/-5

Z2= Heat Resistance

ORIGINAL PROPERTIES	SPEC	RESULT	EVAL
<b>(Z1)</b> Hardness, Shore A, pts.	75±5	75	PASS
Tensile Strength, PSI, min	1450	1719	PASS
Elongation, %, min.	175	177	PASS

HEAT RESISITANCE (A1-A10)	SPEC	RESULT	EVAL
70 HRS. @ 250°C			
Hardness Change, pts., max	+10	+3	PASS
Tensile Strength Change, %, max.	-25	+6	PASS
Elongation Change, %, max.	-25	-5	PASS

COMPRESSION SET (B37)	SPEC	RESULT	EVAL
22 HRS. @ 175°C			
Original Deflection, max	+50	+9	PASS

COMPRESSION SET (B38)	TEST METHOD	SPEC	RESULT	EVAL
22 HRS. @ 200°C	D-395-B			
Original Deflection, max		+50	+13	PASS

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FLUID RESISTANCE, FUEL C (EF31)	SPEC	RESULT	EVAL
70 HRS. @ 23°C			
Hardness Change, pts.	±5	-2	PASS
Tensile Strength Change, %, max.	-25	-9	PASS
Elongation Change, %, max.	-20	-11	PASS
Volume Change, %	0 to +10	+4	PASS

FLUID RESISTANCE, ASTM #101 OIL (EO78)	SPEC	RESULT	EVAL
70 HRS. @ 200°C			
Hardness Change, pts.	-15 to +5	-5	PASS
Tensile Strength Change, %, max.	-40	-10	PASS
Elongation Change, %, max.	-20	-11	PASS
Volume Change, %	0 to +15	+12	PASS

HEAT RESISTANCE (Z2)	SPEC	RESULT	EVAL
70 HRS. @ 275°C			
Hardness Change, pts.	+10	+5	PASS
Tensile Strength Change, %, max.	-40	-10.4	PASS
Elongation Change, %, max.	-20	-9.5	PASS

OIL IMMERSION, ASTM #3 OIL	SPEC	RESULT	EVAL
70 HRS. @ 150°C			
Volume Change, %, max	+10	+2	PASS

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