

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



4/22/2022

Darcoïd Compound: 8004

## COMPOUND DATA SHEET

HNBR, 70 Shore A

This compound has the following physical properties:

ORIGINAL PROPERTIES	TEST METHOD	RESULT
Hardness, Shore A, pts.	D-2240	72.4
Tensile Strength, min, Mpa.	D-412	22.68
Elongation, min. %	D-412	327
Tear Resistance, Kg/cm	D-624 (Die C)	42
Modulus 100%	D-412	5.12
Specific Gravity, g/cm <sup>3</sup>	*	1.263

BUTTON COMPRESSION SET	TEST METHOD	RESULT
22 Hrs. @ 150°C	D-395	
Percent of Original Deflection, max		+9

SLAB COMPRESSION SET	TEST METHOD	RESULT
22 Hrs. @ 150°C	D-395	
Percent of Original Deflection, max		+17

HEAT AGED RESISITANCE, TEST	TEST METHOD	RESULT
70 HRS. @ 150°C	D-573	
Hardness Change, max, pts.		+3.2
Tensile Strength Change, max.%		-9
Elongation Change, max.%		-8
Volume Change, max. %		+0.1

950 3<sup>rd</sup> Street | Oakland, California 94607 | (800) 632-7264

This document is the confidential property of Darcoïd and is not to be shared with any companies or persons outside of the nondisclosure agreement without the written permission from Darcoïd.



OIL IRM 901 RESISTANCE TEST	TEST METHOD	RESULT
70 HRS. @ 150°C	D-471	
Hardness Change, max, pts.		-2.4
Tensile Strength Change, max. %		-2
Elongation Change, max. %		-3
Volume Change, max. %		-2.1

OIL IRM 903 RESISTANCE TEST	TEST METHOD	RESULT
70 HRS. @ 212°F (100°C)	D-471	
Hardness Change, max, pts.		-9.2
Tensile Strength Change, max. %		-9
Elongation Change, max. %		-12
Volume Change, max. %		+11.6

LOW TEMPERATURE RESISTANCE	TEST METHOD	RESULT
Nonbrittle after 3 min. @ -40°C	D-2137	-46

RESISTANCE TO OZONE	TEST METHOD	RESULT
50pphm * 40°C * 72hrs * 20%EB	D-1171	PASS

950 3<sup>rd</sup> Street | Oakland, California 94607 | (800) 632-7264

This document is the confidential property of Darcoïd and is not to be shared with any companies or persons outside of the nondisclosure agreement without the written permission from Darcoïd.

