

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



6/27/2022

Darcoïd Compound 8009

## COMPOUND DATA SHEET

HNBR, 85 Shore A, Black

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

ASTM D2000	3 CH 915 A25 B14 B34 EO16 EO36
	4 CH 915 A25 B14 EO15 EO35
	5 CH 915 A24 B14 B34 EO36
	5 CH 915 A24 B14 B34 EO36
	4 DH 915 A26 B36 EO16 EO36

ORIGINAL PROPERTIES	RESULT
Hardness, Shore A, pts.	85
Tensile Strength, PSI (MPa)	3672 (25.3)
Ultimate Elongation, %	173
Modulus @ 50% Elongation	767 (5.3)
Modulus @ 100% Elongation	1942 (13.4)
Specific Gravity, g/cc	1.21
TR-10 Temperature, °F (C°)	-14 (-25)
Tear Resistance, Die C, ppi (kN/m)	217 (38.0)

COMPRESSION SET	RESULT
Solid: 22 hrs @ 302°F (150°C), %	+12.4
Solid: 70 hrs @ 302°F (150°C), %	+17.4
Plied: 22 hrs @ 302°F (150°C), %	+15.2

HEAT AGE, 70 HR @ 302°F (150°C)	RESULT
Tensile Strength Change, %	+7.7
Elongation Change, %	-15.2
Hardness Change, pts	+5

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HEAT AGE, 70 HR @ 347°F (175°C)	RESULT
Tensile Strength Change, %	-4.1
Elongation Change, %	-42.2
Hardness Change, pts	+8

ASTM OIL #1 (IRM 901): 70 hrs @ 302°F (150°C)	RESULT
Tensile Strength Change, %	-9.1
Elongation Change, %	-15.0
Hardness Change, pts	+3
Volume Change, %	-4

ASTM OIL #3 (IRM 903): 70 hrs @ 302°F (150°C)	RESULT
Tensile Strength Change, %	-3.9
Elongation Change, %	-6.4
Hardness Change, pts	-4
Volume Change, %	+8.7

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