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



6/14/2022

Darcoid Compound: 1049

## **COMPOUND DATA SHEET**

NBR, Black, 70±5 Shore A

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

ASTM D2000 ASTM D2000 M2BG714 A14 B14 B34 EA14 EF11 EF21 EO14 EO34 Z1

| ORIGINAL PROPERTIES        | SPEC       | RESULT | EVAL |
|----------------------------|------------|--------|------|
| Hardness, Shore A          | 70±5       | 70     | PASS |
| Tensile Strength, psi      | 2031       | 2170   | PASS |
| <i>-</i>                   | 250 min    | 309    | PASS |
| Ultimate Elongation, %     | 250 111111 |        | PA33 |
| Modulus at 100%, psi       |            | 616    |      |
| Density, Mg/m <sup>3</sup> |            | 1.25   |      |
|                            |            |        |      |
| HEAT AGE, 70 HR @ 100°C    | SPEC       | RESULT | EVAL |
| Hardness Change, pts       | ±15        | +2     | PASS |
| Tensile Strength Change, % | ±30        | +2     | PASS |
| Elongation Change, %       | -50 max    | -21    | PASS |
| Weight Change, %           |            | 0      |      |
|                            |            |        |      |
| COMPRESSION SET            | SPEC       | RESULT | EVAL |
| Solid: 22 hrs @ 100°C, %   | 25 max     | 14.0   | PASS |
| Plied: 22 hrs @ 100°C, %   | 25 max     | 22.0   | PASS |



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| FLUID RESISTANCE                             | SPEC      | RESULT | EVAL |
|--|-----------|--------|------|
| EA14 Distilled Water: 70 h @ 100°C           |           |        |      |
| Hardness Change, pts                         | ±10       | -3     | PASS |
| Tensile Strength Change, %                   |           | -4     |      |
| Elongation Change, %                         |           | -8     |      |
| Volume Change, %                             | ±15       | +7.3   | PASS |
| EF11 ASTM Fuel A, 70 h @ 23°C                |           |        |      |
| Hardness Change, pts                         | ±10       | -3     | PASS |
| Tensile Strength Change, %                   | -25 max   | -6     | PASS |
| Elongation Change, %                         | -25 max   | -3     | PASS |
| Volume Change, %                             | -5 to +10 | +0.8   | PASS |
| EF21 ASTM Fuel B, 70 h @ 23°C                |           |        |      |
| Hardness Change, pts                         | -30 to 0  | -21    | PASS |
| Tensile Strength Change, %                   | -60 max   | -43    | PASS |
| Elongation Change, %                         | -60 max   | -36    | PASS |
| Volume Change, %                             | 0 to +40  | +27.6  | PASS |
| EO14 IRM 901 OIL, 70 h @ 100°C               |           |        |      |
| Hardness Change, pts                         | -5 to +10 | +3     | PASS |
| Tensile Strength Change, %                   | -25 max   | +4     | PASS |
| Elongation Change, %                         | -45 max   | -20    | PASS |
| Volume Change, %                             | -10 to +5 | -6.5   | PASS |
| EO14 IRM 903 OIL, 70 h @ 100°C               |           |        |      |
| Hardness Change, pts                         | -10 to +5 | -4     | PASS |
| Tensile Strength Change, %                   | -45 max   | -1     | PASS |
| Elongation Change, %                         | -45 max   | -12    | PASS |
| Volume Change, %                             | 0 to +25  | +4.5   | PASS |
| Z1 Low Temperature Retraction (TR Test)      | SPEC      | RESULT | EVAL |
| Testing Elongation: 50%                      |           |        |      |
| Tomporature Managrament Davisa, Thermosouple |           |        |      |

Temperature Measurement Device: Thermocouple

Length of Sample: 51mm

Rate of temp. increasing: 1°C/min

Test Temperature: 26°C

Coolant: Methanol

TR-10, °C -28 PASS





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