

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: 1257

COMPOUND DATA SHEET

NBR, Black, Internally Lubricated, 40±5 Shore A

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

ASTM D2000 2 BG 410 B14 B34 EA14 EF11 EF21 EO34 F17
5 BG 410 A14 B14 B34

| ORIGINAL PROPERTIES | RESULT |
|------------------------|--------|
| Hardness, Shore A | 45 |
| Tensile Strength, psi | 1275 |
| Ultimate Elongation, % | 641 |
| Modulus at 100%, psi | 180 |
| Specific Gravity, g/cc | 1.28 |

| COMPRESSION SET | RESULT |
|--------------------------|--------|
| Solid: 22 hrs @ 212°F, % | 12.6 |
| Solid: 22 hrs @ 257°F, % | 18.2 |
| Solid: 70 hrs @ 212°F, % | 17.9 |
| Plied: 22 hrs @ 212°F, % | 21.3 |
| Plied: 22 hrs @ 257°F, % | 31.3 |
| Plied: 70 hrs @ 212°F, % | 28.0 |

| HEAT AGE, 70 HR @ 212°F | RESULT |
|----------------------------|--------|
| Hardness Change, pts | +2 |
| Tensile Strength Change, % | -15.2 |
| Elongation Change, % | -9.7 |

| HEAT AGE, 70 HR @ 257°F | RESULT |
|----------------------------|--------|
| Hardness Change, pts | +11 |
| Tensile Strength Change, % | -48.0 |
| Elongation Change, % | -74.8 |

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| FLUID RESISTANCE | | RESULT |
|-------------------------------|--|--------|
| Distilled Water: 70 h @ 212°F | | |
| Hardness Change, pts | | -1 |
| Volume Change, % | | +6.4 |
| ASTM Fuel A, 70 h @ 23°C | | |
| Hardness Change, pts | | 0 |
| Tensile Strength Change, % | | +12.5 |
| Elongation Change, % | | +2.0 |
| Volume Change, % | | +0.7 |
| ASTM Fuel B, 70 h @ 23°C | | |
| Hardness Change, pts | | -5 |
| Tensile Strength Change, % | | -69.2 |
| Elongation Change, % | | -41.8 |
| Volume Change, % | | +27.7 |
| ASTM Oil #1, 70 h @ 100°C | | |
| Hardness Change, pts | | 0 |
| Tensile Strength Change, % | | +70.7 |
| Elongation Change, % | | +6.6 |
| Volume Change, % | | -9.0 |
| ASTM Oil #3, 70 h @ 100°C | | |
| Hardness Change, pts | | -5 |
| Tensile Strength Change, % | | -5.9 |
| Elongation Change, % | | -6.2 |
| Volume Change, % | | +6.6 |

| MISC. TEST RESULTS | | RESULT |
|-----------------------------|--|--------|
| Brittleness temperature | | -43°F |
| Tear Resistance, Die B, ppi | | 112.0 |
| Tear Resistance, Die C, ppi | | 130.0 |

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