

Nimax Seals

Tel. No.: +971 4 4329654

Fax No.: +971 4 4329655

Email: sales@nimaxseals.com

Website: www.nimaxseals.com



Compound : NBR90 (Buna-N / Nitrile)

Color : Black

Hardness : Shore A 90 ±5

Working Temp. -30 to +120 degree C

| Property | Test Method | U.m. | Measured Value |
|---------------------|-------------------|----------------------|----------------|
| Hardness | ASTM D 2240 3s | Shore A | 87 |
| Specific Gravity | ASTM D1817 | gr / cm ³ | 1.36 |
| Tensile Strength | ASTM D412 C | MPa | 15.3 |
| Elongation at break | ASTM D 412 C | % | 160 |
| Tear Resistance | ASTM D 624 B | N/mm | 48.4 |
| Modulus at 100% | ASTM D 412 C | MPa | 12.16 |
| Modulus at 300% | ASTM D 412 C | MPa | 13.1 |
| Brittle Point | ASTM D 2177 / 94A | LC | -30 |

COMPRESSION SET – DEFORMATION 25%

| Time Hours | Test Method | Result % | Temperature LC |
|------------|--------------|----------|----------------|
| 24 | ASTM D 395 B | 8.5 | 100 |
| 70 | ASTM D 395 B | 16.5 | 100 |
| 70 | ASTM D 395 B | 13 | 24 |

CHANGE OF PROPERTIES AFTER AGEING

| Medium | Time hrs | Temperature °C | Hardness Pts | Tensile str % | Elongation % | Volume % | Test Method |
|------------|----------|----------------|--------------|---------------|--------------|----------|-------------|
| Air | 72 | 100 | +4 | -3.5 | -21 | - | ASTM D573 |
| ASTM 1 Oil | 72 | 100 | +5 | +7 | -25.5 | -4.2 | ASTM D471 |
| ASTM 3 Oil | 72 | 100 | -4 | +12.5 | -20.5 | +8.2 | ASTM D471 |
| Water | 70 | 100 | -2 | -2 | -2 | +4.5 | ASTM D471 |