



## General Features

- Good compression set resistance
- Good heat resistance
- Excellent resistance to petroleum oils, greases, and fuels
- Good low temperature performance

## Application

A general purpose NBR with good aging resistance for suitability in a variety of sealing applications.

366Y exhibits excellent resistance to a wide range of petroleum products while providing low temperature flexibility and sealing performance.



Quad-Ring® Brand Seals



Quad® Brand O-Ring Seals



Quad® Ground Rubber Balls



Equi-Flex™ Rod Wiper/  
Scraper

## Original Properties

| Property             | Unit    | Required | Obtained | ASTM Test Method |
|----------------------|---------|----------|----------|------------------|
| Hardness             | Shore A | 70 ± 5   | 71       | D 2240           |
| Tensile              | MPa     | 10 min   | 16.6     | D 412            |
| Elongation at break  | %       | 250 min  | 449      | D 412            |
| 100% Modulus         | MPa     |          | 3.4      | D 412            |
| Tear Strength, Die C | kN/m    |          | 38.5     | D 624            |
| Specific Gravity     |         |          | 1.26     | D 297            |

## Air Age

| Property                 | Unit    | Obtained | ASTM Test Method |
|--------------------------|---------|----------|------------------|
| Change after 70h @ 100°C |         |          |                  |
| Δ Hardness               | Shore A | 5        | D 573            |
| Δ Tensile                | %       | 8.2      |                  |
| Δ Elongation             | %       | -23.4    |                  |

# NBR Elastomer Compound 366Y

## Fluid Immersion

| Property                | Unit    | Obtained | ASTM Test Method |
|-------------------------|---------|----------|------------------|
| Reference Fuel A        |         |          |                  |
| Change after 70h @ 23°C |         |          | D 471            |
| Δ Hardness              | Shore A | -3       |                  |
| Δ Tensile               | %       | -16.4    |                  |
| Δ Elongation            | %       | 0        |                  |
| Δ Volume                | %       | 1.8      |                  |

| Property                 | Unit    | Obtained | ASTM Test Method |
|--------------------------|---------|----------|------------------|
| IRM 901 oil              |         |          |                  |
| Change after 70h @ 100°C |         |          | D 471            |
| Δ Hardness               | Shore A | 2        |                  |
| Δ Tensile                | %       | 32.9     |                  |
| Δ Elongation             | %       | -14.6    |                  |
| Δ Volume                 | %       | -4.9     |                  |

| Property                 | Unit    | Obtained | ASTM Test Method |
|--------------------------|---------|----------|------------------|
| IRM 903 oil              |         |          |                  |
| Change after 70h @ 100°C |         |          | D 471            |
| Δ Hardness               | Shore A | -7       |                  |
| Δ Tensile                | %       | 17.5     |                  |
| Δ Elongation             | %       | -18.1    |                  |
| Δ Volume                 | %       | 9.0      |                  |

| Property                 | Unit    | Obtained | ASTM Test Method |
|--------------------------|---------|----------|------------------|
| De-Ionized Water         |         |          |                  |
| Change after 70h @ 100°C |         |          |                  |
| Δ Hardness               | Shore A | -2       |                  |
| Δ Tensile                | %       | 3.9      |                  |
| Δ Elongation             | %       | -21.8    |                  |
| Δ Volume                 | %       | 2.8      |                  |

## Compression Set Resistance

| Property    | Unit | Obtained | ASTM Test Method |
|-------------|------|----------|------------------|
|             |      |          | D 395, Method B  |
| 22h @ 100°C | %    | 12.6     |                  |
| 70h @ 100°C | %    | 17.0     |                  |

## Low Temperature

| Property                       | Obtained | ASTM Test Method |
|--------------------------------|----------|------------------|
| Non-brittleness, 3 min @ -40°C | Pass     | D 2137           |