


CS: 0.139" ±0.004" (3.53 mm ±0.10 mm)  
ID: 3.484" ±0.024" (88.49 mm ±0.61 mm)

|   |                                       |
|---|---------------------------------------|
|  <b>GLOBAL O-RING</b><br>and SEAL<br>ALL-AROUND BETTER | PART NUMBER<br><b>N90238</b>          |
| 14450 John F. Kennedy Blvd.<br>Houston, TX 77032<br><a href="http://www.globaloring.com">www.globaloring.com</a>                            | Nitrile 90 Duro AS568 Size 238 O-Ring |
| Information in this drawing is provided for reference only  |                                       |

|                 |                             |  |
|-----------------|-----------------------------|--|
| <b>Compound</b> | N90-A101                    | Nitrile (Buna), General Purpose            |
|                 | Temperature Range (Static): | -25°C to 121°C                             |
|                 | Cure System:                | Sulfur                                     |
|                 | Specification               | M7BG910 A14 B14 EA14 EF11 EF21 EO14 EO34 Z |

Compound Previously Known As: N90101

|                   |                               | Required Results | Typical Results |
|-------------------|-------------------------------|------------------|-----------------|
| <b>Properties</b> | Hardness, Shore A, pts        | 90±5             | 87              |
|                   | Tensile Strength, psi, min    | 1450(min)        | 2290            |
|                   | Elongation, min, %            | 100(min)         | 133             |
|                   | Modulus @ 100%, psi           |                  | 1892            |
|                   | Density, Mg/m3                |                  | 1.37            |
| <b>A14</b>        | Hardness Change, pts, Shore A | ±15              | +4              |
|                   | Tensile Strength Change, %    | ±30              | +5              |
|                   | Elongation Change, %          | -50(max)         | -19             |
|                   | Weight Change, % -0.5         |                  | -0.5            |
| <b>B14</b>        | ASTM D395-18, Method B        | 25%(button)(max) | 15.0            |
| <b>EA14</b>       | Hardness Change, pts, Shore A | ±10              | -4              |
|                   | Tensile Strength Change, %    |                  | +4              |
|                   | Elongation Change, %          |                  | -11             |
|                   | Volume Change, %              | ±15              | +3              |
| <b>EF11</b>       | Hardness Change, pts, Shore A | ±10              | -5              |
|                   | Tensile Strength Change, %    | -25(max)         | -3              |
|                   | Elongation Change, %          | -25(max)         | +2              |
|                   | Volume Change, %              | -5~+10           | +4              |
| <b>EF21</b>       | Hardness Change, pts, Shore A | -30~0            | -14             |
|                   | Tensile Strength Change, %    | -60(max)         | -21             |
|                   | Elongation Change, %          | -60(max)         | -17             |
|                   | Volume Change, %              | 0~+40            | +21             |
| <b>EO14</b>       | Hardness Change, pts, Shore A | -5~+5            | +1              |
|                   | Tensile Strength Change, %    | -25(max)         | -3              |
|                   | Elongation Change, %          | -45(max)         | -18             |
|                   | Volume Change, %              | -10~+5           | -4              |
| <b>EO34</b>       | Hardness Change, pts, Shore A | -10~+5           | -3              |
|                   | Tensile Strength Change, %    | -45(max)         | +3              |
|                   | Elongation Change, %          | -45(max)         | -12             |
|                   | Volume Change, %              | 0~+25            | +8              |
| <b>TR-10</b>      | 51 mm die, 50% elongation, °C |                  | -20             |