

## NITRILE 70 FDA

| SPECIFICATION – ASTM D2000 M2BG710 A14 B14 EO14 EO34<br>FOOD STANDARD GB4806.1-1994 21 CFR 177.1480 |             | Test    | Spec |
|---|-------------|---------|------|
| <b>Physical Properties</b>  |             |         |      |
| <b>Press Cure at 170°C for 10 mins</b>  |             |         |      |
| <b>Post Cure at 120°C for 1 hr</b>  |             |         |      |
| Hardness, shore A   | 72          | 70 +/-5 |      |
| Tensile, strength, MPa  | 13.8        | 10      |      |
| Elongation, %   | 407         | 250     |      |
| Specific Gravity  | 1.221       |         |      |
| <b>Heat Resistance at 100°C for 70 hrs</b>  |             |         |      |
| Hardness Change, points   | +2          | +/-15   |      |
| Tensile Change, %   | +4          | +/-30   |      |
| Elongation Change, %  | -11         | -50     |      |
| <b>Compression Set, 100°C for 70 hrs</b>  |             |         |      |
| <b>Press Cure at 170°C for 12 mins</b>  |             |         |      |
| <b>Post Cure at 120°C for 1 hr</b>  |             |         |      |
| <b>Heat Ageing at 100°C for 22 hrs</b>  | 9           | 25      |      |
| <b>ASTM No.1 Oil Immersion at 100°C for 70 hrs</b>  |             |         |      |
| Hardness Change, points   | +2          | -5/+10  |      |
| Tensile strength change, %  | +9          | -25     |      |
| Elongation strength change, %   | -15         | -45     |      |
| Volume Change, %  | -3          | -10/+5  |      |
| <b>ASTM IRM 903 Oil Immersion at 100°C for 70 hrs</b>   |             |         |      |
| Hardness Change, points   | -10         | -10/+5  |      |
| Tensile change, %   | -19         | -45     |      |
| Elongation change, %  | -22         | -45     |      |
| Volume change, %  | +17         | 0/+25   |      |
| <b>Water Resistance at 100°C for 70 hrs</b>   |             |         |      |
| Hardness Change, points   | -6          | +/-10   |      |
| Volume change %   | +15         | +/-15   |      |
| <b>Low Temp Brittleness – Tests at -40°C for 3 mins</b>   | Non brittle |         |      |

The above data is obtained through our own laboratory testing on slabs and buttons and als D2137

THESE RESULTS ARE FOR REFERENCE PURPOSES ONLY AND M SEALS MAKES NO WARRANTY, EXPRESSED OR IMPLIED, THAT PARTS MANUFACTURED IN THIS COMPOUND WILL PERFORM SATISFACTORILY IN THE CUSTOMER'S APPLICATION.  
IT IS THE CUSTOMER'S RESPONSIBILITY TO TEST PARTS PRIOR TO THEIR USE .