Basic Elastomer and Thermoplastic Characteristics

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| --- | --- | --- | --- | --- | --- |
| Material | BUNA | EPDM | VITON® | TEFLON® | SILICONE |
| Temperature | -65 - 250○F | -60 - 300○F | -40 -450○F | -40 -450○F | -80 - 450○F |
| Acid | Good | Good to Excellent | Good to Excellent | Good to Excellent | Poor to Good |
| Alkali | Fair to Good | Good to Excellent | Poor to Good | Excellent | Poor to Fair |
| Fats/Oils | Good to Excellent | Poor\* | Good to Excellent | Excellent | Poor to Good |
| Taste | Good | Good | Good | Excellent | Good |
| Odor | Good | Good | Good | Excellent | Good |
| Abrasion Resistance | Excellent | Good | Good | Fair | Poor |
| Compression Set | Good | Fair | Good to Excellent | Cold Flows | Good to Excellent |

\*Depends upon type of oil

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Performance Properties | BUNA | EPDM | VITON® | SILICONE |
| Tensile Strength | Fair to Good | Good to Excellent | Good to Excellent | Good |
| Electrical Properties | Poor | Excellent | Good | Excellent |
| Weather Resistance | Good | Excellent | Good | Excellent |
| Ozone Resistance | Fair | Excellent | Excellent | Excellent |
| Steam Resistance | Fair | Excellent (150 psig) | Good | Fair |
| Tear Resistance | Fair | Good | Fair | Excellent |
| Petroleum Oil | Excellent | Poor | Excellent | Good |
| Flame Resistance | Poor | Poor | Good | Poor |
| Vegetable Oil | Good | Good (most) | Excellent | Good (intermittent) |

|  |  |
| --- | --- |
| Material | Color Coding |
| Black BUNA | 3 Red Dots |
| White BUNA | 1 Red Dot |
| Black EPDM | 1 Green Dot |
| White EPDM | 1 Green Dot |
| Black Viton | 1 Yellow Dot and 1 White Dot |
| White Viton | 1 Yellow Dot |
| White Silicone | 1 Pink Dot |