

## Material Properties: Simriz® 484 (FFKM)

NOTE - All testing done on AS568-214 size O-rings

NOTE - Simriz 484 is certified to USP Class VI and is FDA compliant for food processing applications.

Simriz 484 offers wide chemical resistance and excellent heat resistance.

| Original Properties   | Simriz 484 |
|---|------------|
| Color   | Black      |
| Hardness, Shore A, ASTM D2240   | 74         |
| Tensile Strength, MPa, ASTM D1414   | 22.0       |
| Tensile Strength, psi, ASTM D1414   | 3190       |
| Ultimate Elongation, %, ASTM D1414  | 170        |
| 100% Modulus, MPa, ASTM D1414   | 8.0        |
| 100% Modulus, psi, ASTM D1414   | 1160       |
| Compression Set, ASTM D1414 and ASTM D395 Method B, AS568-214 size O-rings, times and temperatures as shown |            |
| % Permanent Set, 70 hrs. at 200°C   | 32         |
| % Permanent Set, 168 hrs. at 200°C  | 36         |
| 20% Sulfuric Acid Immersion, ASTM D471, 70 hrs. at 95°C   |            |
| Volume Change, %  | +1.2       |
| 20% Nitric Acid Immersion, ASTM D471, 70 hrs. at 95°C   |            |
| Volume Change, %  | +27        |
| Hexamethylenediamine Immersion, ASTM D471, 70 hrs. at 140°C   |            |
| Volume Change, %  | +6.8       |
| Water Bomb Immersion, ASTM D471, 70 hrs. at 200°C   |            |
| Volume Change, %  | +5.3       |
| Low Temperature Glass Transition Temperature, ASTM D3418  |            |
| DSC Tg, C   | -7°C       |