

Material Properties: Simriz® 487 (FFKM)

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

| Original Properties | Simriz 487 |
|--|------------|
| Color | Black |
| Hardness, Shore A, ASTM D2240 | 79 |
| Tensile Strength, MPa, ASTM D412 Die C | 18.7 |
| Tensile Strength, psi, ASTM D412 Die C | 2710 |
| % Elongation change, ASTM D412 Die C | 170 |
| 100% Modulus, Mpa, ASTM D412 Die C | 8.6 |
| 100% Modulus, psi, ASTM D412 Die C | 1245 |
| Low Temperature Glass Transition Temperature, ASTM D3418 | |
| Tg (degrees C) | 0 |
| Low Temperature Retraction, ASTM D1329 | |
| TR-10, degrees C | 0 |
| Air Aging ASTM D573, 70 hrs. at 250°C | |
| Hardness change, Shore A, ASTM D2240 | 0 |
| % Tensile Strength change, ASTM D1414 | -13 |
| % Elongation change, ASTM D1414 | +24 |
| % Weight loss, ASTM D573 | 1.0 |
| Compression Set, ASTM D395 Method B and ASTM D1414 | |
| % Permanent Set, 70 hrs. at 275°C | 26 |
| % Permanent Set, 300 hrs. at 275°C | 44 |
| % Permanent Set, 70 hrs. at 300°C | 29 |
| % Permanent Set, 300 hrs. at 300°C | 43 |
| Water Bomb Fluid Immersion, ASTM D471, 70 hrs. at 200°C | |
| % Volume change, ASTM D471 | +1.9 |



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