

## 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



**Seal & Design  
 Able Division**

5533 Steeles Avenue West Unit 11  
 Toronto, Ontario M9L 1S7  
 Ph: (416) 741-0750  
 Gasket@AbleSealAndDesign.com



**Seal & Design  
 Corporate Headquarters**

4015 Casilio Parkway  
 Clarence, NY 14031  
 Ph: (716) 759-2222  
 Info@SealAndDesign.com  
 www.SealAndDesign.com



**Seal & Design  
 Higbee Division**

6741 Thompson Rd N  
 Syracuse, NY 13221  
 Ph: (315) 432-8021  
 Sales@Higbee-Inc.com