

Material Properties: Simriz® 481 (FFKM)

Original Properties	Simriz 481
Color	Black
Hardness, Shore A, ASTM D2240	71
Tensile Strength, MPa, ASTM D412 Die C	17.1
Tensile Strength, psi, ASTM D412 Die C	2480
Ultimate Elongation, %, ASTM D412 Die C	260
100% Modulus, MPa, ASTM D412 Die C	3.7
100% Modulus, psi, ASTM D412 Die C	535
Low Temperature Glass Transition Temperature, ASTM D3418	
DSC Tg, C	-20
Temperature Retraction, ASTM D1329	
TR-10, degrees C	-14
Compression Set, ASTM D1414 and ASTM D395 Method B, AS568-214 size O-rings, 70 hours at 200°C	
% Permanent Set	27
Fluid Immersion - Water Bomb, ASTM D471, 70 hrs. at 200°C	
Volume Change, %	+6.3