

Freudenberg Simrit Simriz[®] 481 Low Temperature FFKT Perfluoroelastomer Compound

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Perfluoro elastomers " or FFKM for short " have an ideal combination of characteristics, with their excellent chemical resistance, high level of temperature resistance, and high levels of elasticity. Simriz[®] perfluoro elastomers close the material gap between inelastic PTFE and elastomers, which have poor temperature and chemical resistance properties. With a fluoridation level of 72%, FFKM elastomers have a level of resistance close to that of pure PTFE at 76%. At the same time, FFKM materials are so elastic that they are excellently suited to both static and dynamic seals. Simrit offers ISC O-Rings which are specifically optimised with respect to flexibility at low temperatures, resistance to high temperatures, hardness, tensile strength, elongation, compression set, or color. Information provided by Freudenburg-NOK.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Freudenberg-Simrit-Simriz-481-Low-Temperature-FFKT-Perfluoroelastomer-Compound.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	
Tensile Strength, Ultimate	17.1 MPa	2480 psi	
Elongation at Break	260 %	260 %	
Compression Set	27 % @Temperature 200 °C	27 % @Temperature 392 °F	70 hr

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	230 °C	446 °F	
Minimum Service Temperature, Air	-25.0 °C	-13.0 °F	

Descriptive Properties	Value	Comments
Color	Black	
Water Resistance	6.3	70 h; 200°C

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