Freudenberg Simrit SimrizÂ® 489 Ultra Pure FFKT Perfluoroelastomer Compound

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

Material Notes:

Perfluoro elastomers â€“ or FFKM for short â€“ have an ideal combination of characteristics, with their excellent chemical resistance, high level of temperature resistance, and high levels of elasticity. SimrizÂ® 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-489-Ultra-Pure-FFKT-Perfluoroelastomer-Compound.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	66	66	
Tensile Strength, Ultimate	13.5 MPa	1960 psi	
Elongation at Break	235 %	235 %	
Compression Set	20 % @Temperature 250 Â°C	20 % @Temperature 482 Â°F	70 hr

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
Minimum Service Temperature, Air	0.000 Â°C	32.0 Â°F	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	Manufacturer specifies transparent but does not quantify

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