

Greene Tweed FLUORAZ[®] 890 Fluoroelastomer, FEPM

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

Material Notes:

Sanitary gaskets made from Fluoraz[®] 890 are ideal for use in standard SIP and CIP applications where EPDMs and FKMs fail. While EPDMs and FKMs can provide a deal for extended periods, changes in physical properties can have adverse effects beyond simple volume swell. A decrease in hardness or drop in modulus signals a reduction in compressive strength. If a sanitary gasket is retorqued to the installations specification, the gasket will be compressed at a greater level than desired, resulting in increased intrusion into the process stream. An increase in hardness/modulus and a drop in elongation means embrittlement. The seal will be undertorqued, resulting in either leaks or cracking. Fluoraz 890 is formulated for use in sanitary gaskets where both USP and FDA compliance is required, making it an excellent compound for both pharmaceutical and other hygienic fluid handling applications such as seals for brewery applications. Fluoraz 890 metal and TOC extractables are an order of magnitude lower than premium competitive FKM formulations, ensuring little or no contamination into the process stream. Fluoraz 890 also meets the extractive requirements of both 21 CFR 177.2600 (e), (f) and 21 CFR 177.2400 (d) extraction testing for perfluoroelastomers. Fluoraz 890 sanitary gaskets by Greene Tweed are designed for minimal intrusion. Fluoraz 890 is also available in O-rings and custom shapes where a medium durometer hardness is desired. Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-FLUORAZ-890-Fluoroelastomer-FEPM.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 g/cc	ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength at Break	17.9 MPa	2600 psi	ASTM D1414
Tensile Strength, Yield	5.86 MPa	850 psi	@50% Elongation; ASTM D1414
	11.7 MPa	1700 psi	@100% Elongation; ASTM D1414
Elongation at Break	175 %	175 %	ASTM D1414
Compression Set	30 %	30 %	70 hours @ 400 [°] F (204 [°] C) @ 25% deflection; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 [°] C	450 [°] F	
Minimum Service Temperature, Air	-5.00 [°] C	23.0 [°] F	

Descriptive Properties	Value	Comments
Color	Black	

Descriptive Properties	Value	Comments
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