

Greene Tweed CHEMRAZ® SD517 Perfluoroelastomer

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

Material Notes:

Chemraz® SD517, a white-colored perfluoroelastomer, offers the broadest chemical resistance of any elastomer, combining the resilience and sealing force of an elastomer with chemical resistance and low extractables similar to PTFE. Providing the lowest temperature sealing properties of any perfluoroelastomer on the market (-22°F, -30°C), Chemraz SD517 is an ideal seal component for sub-ambient mechanical seal applications and is the preferred alternative to encapsulated O-rings. With its white color, Chemraz SD517 meets the needs of applications requiring non-black elastomers. Chemraz SD517's many features make it well suited for critical applications and difficult seal replacement locations where maximizing MTBR (mean time between replacement) is paramount. Chemraz components are available for use as O-rings, gaskets, sanitary seals and many other custom shapes. This product is FDA and USP Class VI compliant making it an ideal product for electrometric applications requiring regulatory compliance. Applications: Mechanical seals, Valves, Pumps, Mixers, Fermenters, Biomedical equipment, Couplings. Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-CHEMRAZ-SD517-Perfluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.22 g/cc	2.22 g/cc	ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength at Break	11.0 MPa	1600 psi	ASTM D1414
Tensile Strength, Yield	3.72 MPa	540 psi	@50% Elongation; ASTM D1414
	7.24 MPa	1050 psi	@100% Elongation; ASTM D1414
Compression Set	25 %	25 %	70 hours @ 400°F (204°C) @ 25% deflection; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 °C	428 °F	
Minimum Service Temperature, Air	-30.0 °C	-22.0 °F	

Descriptive Properties	Value	Comments
Color	White	

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