

Greene Tweed CHEMRAZ® 551 Perfluoroelastomer

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

Material Notes:

With its broad chemical resistance, Chemraz® 551 is ideally suited as a universal sealing material for aqueous semiconductor wafer processing and chemical/DI water distribution systems. Chemraz 551 provides a significantly wider operational band and superior compression set resistance than any other broad range perfluoroelastomer on the market. With an upper temperature limit of 316°C (600°F), it is the elastomer of choice for the most demanding applications from ozonated DI water to Hot Sulfuric Resist Strip. Chemraz 551 is one of Greene Tweed's many cost-effective products and services that increase the reliability and extend the lifetime of our customers' equipment in challenging aqueous conditions while protecting both the operator and the environment from harmful fluid leaks. Applications: Valve seals, Fitting and union seals, Gaskets, Regulator seals, Filter seals, Dispensing seals. Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-CHEMRAZ-551-Perfluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.00 g/cc	2.00 g/cc	ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength at Break	23.61 MPa	3425 psi	ASTM D1414
Tensile Strength, Yield	3.10 MPa	450 psi	@50% Elongation; ASTM D1414
	10.17 MPa	1475 psi	@100% Elongation; ASTM D1414
Elongation at Break	175 %	175 %	ASTM D1414
Compression Set	20 %	20 %	70 hours @ 400°F (204°C) @ 25% deflection; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	316 °C	600 °F	
Minimum Service Temperature, Air	-12.2 °C	10.0 °F	

Descriptive Properties	Value	Comments
Color	Black	

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