

## Greene Tweed CHEMRAZ<sup>®</sup> 644 Perfluoroelastomer

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

### Material Notes:

Specifically developed to meet the demands of aggressive dry plasma systems and the corresponding remote O2 cleaning processes, Chemraz<sup>®</sup> 644, a perfluoroelastomer with a unique formulation, provides enhanced plasma resistance and minimal contamination resulting in less downtime and higher wafer processing yields. Recommended primarily for both static and dynamic oxide etch wafer processing applications, Chemraz 644 remains stable at service temperatures up to 315<sup>°</sup>C (600<sup>°</sup>F). Applications: Endpoint windows Bell jar seals Valve seals KF fitting seals Window seals Isolator valve seals Lid seals Gas inlet seals Slit valves seals Chamber seals Information provided by Greene Tweed.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Greene-Tweed-CHEMRAZ-644-Perfluoroelastomer.php](http://www.lookpolymers.com/polymer_Greene-Tweed-CHEMRAZ-644-Perfluoroelastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.03 g/cc	2.03 g/cc	ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ASTM D2240
Tensile Strength at Break	12.37 MPa	1794 psi	ASTM D1414
Tensile Strength, Yield	2.25 MPa	326 psi	@50% Elongation; ASTM D1414
	4.36 MPa	633 psi	@100% Elongation; ASTM D1414
Elongation at Break	207 %	207 %	ASTM D1414
Compression Set	25 %	25 %	70 hours @ 400 <sup>°</sup> F (204 <sup>°</sup> C) @ 25% deflection; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	157 <sup>°</sup> C	315 <sup>°</sup> F	
Minimum Service Temperature, Air	-20.0 <sup>°</sup> C	-4.00 <sup>°</sup> F	

Descriptive Properties	Value	Comments
Color	Dark Green	

## Contact Songhan Plastic Technology Co.,Ltd.

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