

VORAZ™ 511

Perfluoroelastomer
Greene, Tweed & Co.

Message:

Greene, Tweed's Voraz™ 511, a perfluoroelastomer, combines good resistance to CVD and etch plasmas with low stiction to enhance process chamber efficiency and increase uptime in FPD and solar applications. Additionally, Greene, Tweed's proprietary (patent pending) Extenis® manufacturing process facilitates the creation of large seals such as those used in Gen 5+ slit valve doors and chamber lids. This unique combination of materials properties and design capability make Voraz 511 a highly engineered seal solution that is optimized to reduce the total cost of tool ownership for FPD and solar process equipment.

General Information			
Uses	Gaskets		
	Seals		
Appearance	Grey		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.03	g/cm³	ASTM D297
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	78		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D1414
50% Strain	2.83	MPa	
100% Strain	6.38	MPa	
Tensile Strength (Break)	14.5	MPa	ASTM D1414
Tensile Elongation (Break)	190	%	ASTM D1414
Compression Set (204°C, 70 hr)	23	%	ASTM D395
Thermal	Nominal Value	Unit	
Service Temperature	205	°C	
Sticking Point	8200	g	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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