

# Chemraz 505

Polytetrafluoroethylene

Greene, Tweed & Co.

## Message:

Greene, Tweed's Chemraz® 505 a perfluoroelastomer, provided a broad range of chemical resistance. Chemraz 505 is available for use as O-rings, gaskets and many other custom shapes. Because of its versatility, Chemraz 505 is often used as a standard compound and can be found in a variety of applications including acids, caustics, aldehydes, esters, ethers, aromatics, hot water, steam, amines, methanol, Ketones, TBA and MTBE. With a temperature range of -22°F to 446°F (-30°C to 230°C), Chemraz 505 is ideal for processes taking place in subzero temperatures as well as for use in multisubstance plants for in mixed media due to its broad chemical resistance.

General Information			
Features	Good Chemical Resistance		
	Low Compression Set		
	Low Temperature Resistant		
Uses	Gaskets		
	Housings		
	Plumbing Parts		
	Seals		
	Valves/Valve Parts		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.93	g/cm <sup>3</sup>	ASTM D297
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	75		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D1414
50% Strain	3.10	MPa	
100% Strain	7.93	MPa	
Tensile Strength (Break)	12.1	MPa	ASTM D1414
Tensile Elongation (Break)	140	%	ASTM D1414
Compression Set			ASTM D395
149°C, 1000 hr <sup>1</sup>	41	%	
204°C, 70 hr <sup>2</sup>	25	%	
Thermal	Nominal Value	Unit	
Service Temperature	-30 to 230	°C	
NOTE			
1.	41% Deflection		
2.	25% Deflection		

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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

