

# Chemraz 510

Polytetrafluoroethylene

Greene, Tweed & Co.

## Message:

Greene, Tweed's Chemraz 510, a perfluoroelastomer, offers an extremely borad range of chemical resistance with a Shore A hardness value of 90. With a temperature range of -22°F to 446°F (-30°C to 230°C), Chemraz 510 is well suited for use in a range of applications, from mechanical selas to pump housings.

Because of versality, Chemraz 510 is often used as a standard compound for sealing at high pressures. It can be found in a variety of fluids and solutions including acids, caustics, aldehydes, esters, aromatics, hot water, steam, amines, methanol, ketones, TBA and MTBE. Chemraz 510 is available for use as O-rings, gaskets and many other custom shapes.

General Information			
Features	Good Chemical Resistance		
	High Density		
	High Hardness		
	Low Temperature Resistant		
Uses	Gaskets		
	Housings		
	Plumbing Parts		
	Seals		
	Valves/Valve Parts		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.92	g/cm³	ASTM D297
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (50% Strain)	7.58	MPa	ASTM D1414
Tensile Strength (Break)	13.6	MPa	ASTM D1414
Tensile Elongation (Break)	85	%	ASTM D1414
Compression Set <sup>1</sup> (204°C, 70 hr)	30	%	ASTM D395
Thermal	Nominal Value	Unit	
Service Temperature	-30 to 230	°C	
NOTE			
1.	25% Deflection		

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