



Chemraz® 541

Universal Perfluoroelastomer (FFKM)

Compound No./Material Name: Chemraz® 541	Rubber Classification: FFKM	Service Temperature Range: 3°F to 446°F (-16°C to 230°C)	Color: Black
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Description		Product Spec	Typical
Original Properties			
Specific Gravity		ASTM D297	2
Hardness, Type A		points	76
Tensile Strength		psi	3009
Elongation		%	183
Modulus @ 100% Elongation		psi	1133
Modulus @ 50% Elongation		psi	410
Compression Set		Sample Type	Result
22 Hours @ 392°F (200°C), in Air, @ 25% deflection		O-Rings	23.3
70 Hours @ 400°F (204°C) in Air @ 25% deflection		O-Rings	26.7
22 Hours @ 392°F (200°C) in Air @ 25% deflection		Buttons	8.7
Coefficient of Thermal Expansion (CTE)		Product Spec	Result
20 to 120°C		um/(m.°C)	302
120 to 220°C		um/(m.°C)	349
Fluid Aging			
70 hours @ 347°F (175°C) in Mobil Jet Oil II	Hardness Change, Type M	Points	0.37
	Tensile Strength	%	5.83
	Elongation	%	6.23
	Volume Change	%	0
70 hours @ Room Temperature in ASTM Ref. Fuel B	Hardness Change, Type M	Points	0.2
	Tensile Strength	%	4.53
	Elongation	%	3.1
	Volume Change	%	0
70 hours @ 250°F (121°C) in Distilled Water	Hardness Change, Type M	Points	1.33
	Tensile Strength	%	-2.93
	Elongation	%	5.10
	Volume Change	%	1.33



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Description		Product Spec	Typical
Fluid Aging			
70 hours @ 250°F (121°C) in Steam	Hardness Change, Type M	Points	0.20
	Tensile Strength	%	-6.80
	Elongation	%	2.50
	Volume Change	%	1.00
168 hours @ 250°F (121°C) in Reagent Grade Sulfuric Acid	Hardness Change, Type M	Points	-3.5
	Tensile Strength	%	2.5
	Elongation	%	-0.20
	Volume Change	%	9.33
168 hours @ 302°F (150°C) in Diglycolamine	Hardness Change, Type M	Points	-4.0
	Tensile Strength	%	-1.0
	Elongation	%	31.0
	Volume Change	%	6.0
Outgassing @ 212°F (100°C)	Low Boilers C7 - C10	ppmw	0
	Medium Boilers >C10 - C20	ppmw	0
	High Boilers >C20	ppmw	0
	Sum >=C7	ppmw	0
Outgassing @ 392°F (200°C)	Low Boilers C7 - C10	ppmw	0.70
	Medium Boilers >C10 - C20	ppmw	6.20
	High Boilers >C20	ppmw	1.20
	Sum >=C7	ppmw	8.10

Greene Tweed

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