



Fluoraz[®] 797 FEPM Sealing Solutions

Compound No./Material Name:	Rubber Classification:	Service Temperature Range:	Color:
Fluoraz [®] 797	(ASTM D1418): FEPM	23°F to 450°F (-5°C to 232°C)	Black

Description		Typical
Original Properties* (ASTM Standard)		
Specific Gravity (D297)		1.63
Hardness, Shore A, Points (D2240)		80
Hardness, Shore M, Points (D2240)		83
Tensile Strength @ Break, psi [MPa] (D1414)		2,800 [19.31]
Elongation, % (D1414)		225
Modulus @ 50% Elongation, psi [MPa] (D1414)		560 [3.86]
Modulus @ 100% Elongation, psi [MPa] (D1414)		1,325 [9.14]
TR 10/50, °F [°C] (D1329)		42 [6]
Tear Strength, lb./in. [kg/cm] (D624, Method B)		315 [56.25]
Coefficient of Linear Thermal Expansion, 10 ⁻⁵ in/in-°F (E228)		12.0
Coefficient of Friction (ASTM Standard)		
Static (D1894, Method C)		0.8
Kinetic (D1894, Method C)		0.5
Compression Set @ 25% Deflection* (ASTM Standard)		
22 Hours @ 392°F (200°C), In Air, % of Original Deflection, % (D395, Method B)		40
Air Aging (ASTM Standard)		
70 Hours @ 300°F (149°C)	Hardness Change, Points (D573)	+2
	Tensile Change, % (D573)	0
	Elongation Change, % (D573)	+7
70 Hours @ 450°F (232°C)	Hardness Change, Points (D573)	-1
	Tensile Change, % (D573)	-10
	Elongation Change, % (D573)	+11
70 Hours @ 528°F (276°C)	Hardness Change, Points (D573)	0
	Tensile Change, % (D573)	-56
	Elongation Change, % (D573)	+13
70 Hours @ 550°F (288°C)	Hardness Change, Points (D573)	-2
	Tensile Change, % (D573)	-68
	Elongation Change, % (D573)	-22

Contact Us

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Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.

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Description		Typical
Fluid Aging (ASTM Standard)		
70 Hours @ 347°F (175°C) In Stauffer 7700	Hardness Change, Points (D471)	-16
	Tensile Change, % (D471)	-25
	Elongation Change, % (D471)	+15
	Volume Change, % (D471)	+25
70 Hours @ 275°F (135°C) In ATF	Hardness Change, Points (D471)	-7
	Tensile Change, % (D471)	-12
	Elongation Change, % (D471)	+17
	Volume Change, % (D471)	+8
70 Hours @ 467°F (242°C) In Steam @ 500 psi (3.45 MPa)	Hardness Change, Points (D471)	-2
	Tensile Change, % (D471)	-44
	Elongation Change, % (D471)	-32
	Volume Change, % (D471)	+2
70 Hours @ 275°F (135°C) In Wagner 21B	Hardness Change, Points (D471)	-4
	Tensile Change, % (D471)	-13.8
	Elongation Change, % (D471)	+24.2
	Volume Change, % (D471)	+6.9
1000 Hours @ 392°F (200°C) In Castrol 325	Hardness Change, Points (D471)	-10
	Tensile Change, % (D471)	-17
	Elongation Change, % (D471)	+12
	Volume Change, % (D471)	+10
100 Hours @ 464°F (240°C) In Castrol 325	Hardness Change, Points (D471)	-15
	Tensile Change, % (D471)	-22
	Elongation Change, % (D471)	+25
	Volume Change, % (D471)	+12
Compression Set @ 25% Deflection (ASTM Standard)		
70 Hours @ Room Temperature, In Air, % of Original Deflection, % (D395)		19
70 Hours @ 300°F (149°C), In Air, % of Original Deflection, % (D395)		36
166 Hours @ 347°F (175°C), In Air, % of Original Deflection, % (D395)		40
22 Hours @ 392°F (200°C), In Air, % of Original Deflection, % (D395)		27
70 Hours @ 392°F (200°C), In Air, % of Original Deflection, % (D395)		34
70 Hours @ 450°F (232°C), In Air, % of Original Deflection, % (D395)		39
70 Hours @ 467°F (242°C), In 500 psi (3.45 MPa) Steam, % of Original Deflection, % (D395)		22
70 Hours @ 550°F (288°C), In Air, % of Original Deflection, % (D395)		64

*Tests performed on 214 o-rings.

Unless otherwise noted, all tests listed in the Appendix are performed on ASTM slabs and buttons.

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