

Fusion® 731 Typical Properties

Rubber Classification (ASTM D1418): **FKM** | Color: **Black**

Service Temperature Range: **-22°F to 450°F (-30°C to 232°C)**

Description		ASTM Standard	Units	Typical
Original Properties				
Specific Gravity		D792	—	1.83
Hardness, Type A, Buttons		D2240	Points	77
Hardness, Type A, O-rings		D1414	Points	77
Tensile Strength @ Break		D1414	psi [MPa]	1754 [12.1]
Elongation		D1414	%	256
Modulus @ 100% Elongation		D1414	psi [MPa]	678 [4.7]
Modulus @ 50% Elongation		D1414	psi [MPa]	372 [2.6]
TR-10/50		D1414	°F [°C]	3.3 [-16]
Coefficient of Linear Thermal Expansion, 68°F – 212°F [20 – 100°C]		E831	µin/in-°F [µm/m-°C]	97.5 [175.5]
Coefficient of Linear Thermal Expansion, 212°F – 392°F [100 – 200°C]		E831	µin/in-°F [µm/m-°C]	111.3 [200.4]
Compression Set @ 25% Deflection				
22 Hours @ 392°F [200°C] in Air, % of Original Deflection		D1414	%	10
336 Hours @ 392°F [200°C] in Air, % of Original Deflection		D1414	%	40
70 Hours @ 392°F [200°C] in AMS3023 Fluid		D1414	%	6
Air Aging				
70 Hours @ 518°F [270°C]	Hardness Change, Type A	D573	Points	+2
	Tensile Change	D573	%	0
	Elongation Change	D573	%	-14
	Weight Change	D573	%	-4
Fluid Aging				
70 Hours @ 392°F [200°C] in AMS3023	Hardness Change, Type A	D471	Points	-8
	Tensile Change	D471	%	-16
	Elongation Change	D471	%	-12
	Volume Change	D471	%	+17
70 Hours @ 75°F [24°C] in ASTM Reference Fuel B	Hardness Change, Type A	D471	Points	-1
	Tensile Change	D471	%	-6
	Elongation Change	D471	%	-2
	Volume Change	D471	%	+2

Notes:

1. Test conditions are aligned with AMS7276J specification, however material is not compliant to AMS7276J.
2. Unless otherwise noted, all tests performed on -214 o-rings.

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