

# Fusion® 772 Typical Properties

Rubber Classification (ASTM D1418): **FKM** | Color: **Black** | Service Temperature Range: **-40°F to 450°F (-40°C to 232°C)**

Description		ASTM Standard	Units	Typical
<b>Original Properties</b>				
Specific Gravity		D792	—	1.80
Hardness, Type A, Buttons		D2240	Points	75
Tensile Strength @ Break		D1414	psi [MPa]	2660 [18.3]
Elongation		D1414	%	200
Modulus @ 100% Elongation		D1414	psi [MPa]	1000 [6.9]
Modulus @ 50% Elongation		D1414	psi [MPa]	350 [2.4]
TR-10/50		D1329	°F [°C]	-22 [-30]
DSC, Glass Transition (T <sub>g</sub> )		D7426	°F [°C]	-24.5 [-31]
Coefficient of Linear Thermal Expansion		E228	10 <sup>-5</sup> in-°F [cm/cm-°C]	12 [21.6]
Coefficient of Friction	Static	D1894, Method C	—	1.21
	Kinetic	D1894, Method C	—	1.12
<b>Air Aging</b>				
70 Hours @ 527°F [275°C]	Hardness Change, Type A	D573	Points	-1
	Tensile Change	D573	%	-25
	Elongation Change	D573	%	-2
	Weight Change	D573	%	+6
<b>Fluid Aging</b>				
70 Hours @ 392°F [200°C], in BP Reference Oil 300 (AMS-3085)	Hardness Change, Type A	D471	Points	-7
	Tensile Change	D471	%	-17
	Elongation Change	D471	%	+5
	Volume Change	D471	%	+17
	Compression Set	D471	%	4
70 Hours @ 73°F [23°C], in TT-S-735 Type III (Reference Fuel B)	Hardness Change, Type A	D471	Points	-1
	Tensile Change	D471	%	-7
	Elongation Change	D471	%	-1
	Volume Change	D471	%	+3
<b>Compression Set @ 25% Deflection</b>				
336 Hours @ 392°F [200°C], in Air		D1414	% of Original Deflection	12
22 Hours @ 392°F [200°C], in Air		D1414	% of Original Deflection	9

## Notes:

- Material is tested per specification AMS 7287. For customers who require full certification to the specification, AMS 7287 compliance must be specifically identified at time of quote and purchase orders must state AMS 7287 compliance is required.
- Unless otherwise noted, all tests performed on -214 o-rings.

## Greene Tweed

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