



Fusion[®] 770 Typical Properties

Rubber Classification (ASTM D1418): **FKM** | Color: **Black**
 Service Temperature Range: **-55°F to 450°F (-48°C to 232°C)**

Description		ASTM Method	Units	Typical
ORIGINAL PROPERTIES				
Specific Gravity		D792		1.89
Hardness, Type A (Buttons)		D2240	Points, Type A	72
Tensile Strength @ Break		D1414	psi [MPa]	2100 [14.5]
Elongation		D1414	%	230
Modulus @ 100% Elongation		D1414	psi [MPa]	610 [4.2]
Modulus @ 50% Elongation		D1414	psi [MPa]	290 [2.0]
Tear Strength		D624, Die C	lb/in [kN/m]	100 [17.5]
TR-10/50		D1329	°F [°C]	-35.5 [-37.5]
COMPRESSION SET @ 25% DEFLECTION				
22 Hrs. @ 392°F [200°C], in Air, % of Original Def.		D1414	%	22
AIR AGING				
70 Hrs. @ 450°F [232°C], in Air	Hardness Change (Buttons)	D573	Points, Type A	-1
	Tensile Strength Change	D573	%	-1
	Elongation Change	D573	%	13
FLUID AGING				
70 Hrs. @ 392°F [200°C], in MIL-PRF-23699 Class HTS Fluid	Hardness Change (Buttons)	D471	Points, Type A	-5
	Tensile Strength Change	D471	%	-14
	Elongation Change	D471	%	5
	Volume Change	D471	%	6
70 Hrs. @ 73°F [23°C], in ASTM Reference Fuel B	Hardness Change (Buttons)	D471	Points, Type A	-2
	Tensile Strength Change	D471	%	-20
	Elongation Change	D471	%	-3
	Volume Change	D471	%	4
70 Hrs. @ 275°F [135°C], in MIL-PRF-83282 Fluid	Hardness Change (Buttons)	D471	Points, Type A	-2
	Tensile Strength Change	D471	%	-14
	Elongation Change	D471	%	-2
	Volume Change	D471	%	2

Unless otherwise noted, all tests performed on -214 O-rings.
 Not for sealing applications, for isolator use only.