MATERIAL PROPERTY DATA SHEET
V708-75 BROWN FLUOROELASTOMER (FKM)

GENERAL PROPERTIES

Boyd Fluorocarbon (FKM) materials utilize the best ingredient formulations from leading industry suppliers including Chemours (Viton®), Solvay, and Daikin. V708-75 has a temperature range of -10F to +480F and can withstand exposure to +600F for brief periods of time. The relatively high level of fluorine allows for exceptional resistance to weather, compression set and chemical attack over wide variety of fluids.

ASTM D2000	PHYSICAL PROPERTIES	REQUIREMENTS	TYPICAL RESULTS
HK	ORIGINAL PROPERTIES		
Z1	Durometer, Shore A, D2240, pts	75+/-5	75
	Tensile, D412, MPa (psi), Minimum	10 (1450)	11.5 (1668)
	Elongation, D412, % Minimum	150	221
	Specific Gravity, g/cm^3	-	2.11
	Color	-	Brown
A1-10	HEAT AGE, D573, 70 HRS @ 250ºC		
	Durometer Change, Points	+10	+2
	Tensile Strength Change, % Maximum	-25	-6
	Elongation Change, % Maximum	-25	-18
B38	COMPRESSION SET, METHOD B, 22 HRS @ 200ºC		
	Deflection, % Maximum	15	12
C12	RESISTANCE TO OZONE, METHOD D1171		
	Method B	No Cracks	Pass
C20	RESISTANCE TO OUTDOOR AGING, D1171		
	Quality retention rating, % Minimum	No Cracks	Pass
EF31	FUEL C RESISTANCE, 70 HRS @ 23ºC		
	Durometer Change, Points	+/-5	-3
	Tensile Change, % Maximum	-25	-15
	Elongation Change, % Maximum	-20	-17
	Volume Change, %	+10 / -0	+5
EO88	FLUID RESISTANCE, D471, HATCO 7700, 70 HRS @ 200ºC		
	Durometer Change, Points	+5 / -15	-4
	Tensile Change, % Maximum	-40	-14
	Elongation Change, % Maximum	-20	-18
	Volume Change, %	+25	+18
	FLUID RESISTANCE, D471, IRM 903 OIL, 70 HRS @ 150ºC		
	Volume Change, %	+10	+2
Z2	LOW TEMPERATURE RETRACTION		
	TR10, Degrees ºC	-15	-18

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SPECIFICATIONS MET

ASTM D2000 M6HK 810 A1-10 B38 C12 C20 EF31 EO88
REACH SVHC 219
RoHS 2015/863
California Proposition 65*
Dodd-Frank Consumer Protection Act: No conflict materials (Tantalum, Tin, Tungsten & Gold)

*This compound may contain trace amounts of these impurities included in California Prop 65:

Benz[a]anthracene 56-55-3
Benzo[b]fluoranthene 205-99-2
Benzo[j]fluoranthene 205-82-3
Benzo[k]fluoranthene 207-08-9
Benzo[a]pyrene 50-32-8
Chrysene 218-01-9
Dibenz[a,h]anthracene 53-70-3
Naphthalene 91-20-3
Titanium dioxide 13463-67-7