

Material Property Data Sheet

V768-75



V768-75 Fluoroelastomer (FKM)

Boyd Fluorocarbon (FKM) materials utilize the best ingredient formulations from leading industry suppliers including Chemours (Viton®), Solvay, and Daikin. V768-75 has a temperature range of -10F to +480F and can withstand exposure to +600F for brief periods of time. Meeting FDA CFR 21 177.2600 and 3A Sanitary Standards, this compound is suitable for use in food and dairy applications. The relatively high level of fluorine allows for exceptional resistance to weather, compression set and chemical attack over wide variety of fluids.

ASTM D2000 Designation	Physical Properties	Requirements	Typical Results
HK	Original Properties		
Z1	Durometer, Shore A, D2240, pts	75+/-5	75
	Tensile, D412, MPa (psi), Minimum	10 (1450)	12.5 (1813)
	Elongation, D412, % Minimum	175	208
	Specific Gravity, g/cm ³	-	2.03
	Color	-	Brown
A1-10	Heat Resistance, D573, 70 hrs @ 250°C		
	Durometer Change, Points	+10	+2
	Tensile Strength Change, % Maximum	-25	+16
	Elongation Change, % Maximum	-25	-18
B37	Compression Set, Method B, 22 hrs @ 175°C		
	Deflection, % Maximum	50	11
B38	Compression Set, Method B, 22 hrs @ 200°C		
	Deflection, % Maximum	15	13
C12	Resistance to Ozone, Method D1171		
	Method B	No Cracks	Pass
C20	Resistance to Outdoor Aging, Method D1171		
	Method B	No Cracks	Pass
EF31	Fuel C Resistance, 70 hrs @ 23°C		
	Durometer Change, Points	+/-5	-2
	Tensile Change, % Maximum	-25	-14
	Elongation Change, % Maximum	-20	-9
	Volume Change, %	+10 / -0	+3.4

NOTICE: The information included in this data sheet is believed to be accurate and reliable. Boyd assumes no responsibility for end use applications and no performance warranty is expressed or implied.

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ASTM D2000 Designation	Physical Properties	Requirements	Typical Results
EO88	Fluid Resistance, D471, Mobile Jet II, 70 hrs @ 200°C		
	Durometer Change, Points	+5 / -15	-9
	Tensile Change, % Maximum	-40	-14
	Elongation Change, % Maximum	-20	-15
	Volume Change, %	+25	+15
	Fluid Resistance, D471, IRM 903 Oil, 70 hrs @ 150°C		
	Volume Change, %	+10	+2
Z2	Low Temperature Retraction TR10, Degrees °C	-15	-16.4

Specifications Met

ASTM D2000 M6HK 810 A1-10 B38 C12 C20 EF31 EO88
 REACH SVHC 235
 RoHS 2015/863
 California Proposition 65*
 Dodd-Frank Consumer Protection Act: No conflict materials (Tantalum, Tin, Tungsten & Gold)
 FDA 21 CFR 177.2600
 3A Sanitary Class I

*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
 Indeno[1,2,3-cd]pyrene 193-39-5

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