

BOYD CORPORATION

TECHNICAL REPORT V768-75 BROWN FDA AND 3A SANITARY VITON® COMPOUND

GENERAL PROPERTIES

VITON® is DuPont-Dow Elastomer's trade name for Fluorocarbon Elastomers. These compounds offer the best resistance to a combination of chemicals, weather, and compression set over a temperature range of -20F to +400F. The ingredients in the V768-75 are listed in the U.S. Code of Federal Regulations (21 CFR 177.2600) as being acceptable for repeated use in contact with food, and meets the 3A Sanitary requirements for use with Milk and Edible Oils. This Compound is **BROWN in color**.

<u>ASTM Designation</u>	<u>ORIGINAL PROPERTIES</u>	<u>ASTM D2000 SPECIFICATION</u>	<u>V768-75 LABORATORY PROPERTY</u>
	Durometer, Shore A	75 +/- 5	76
	Tensile, psi (MPa), Minimum	1450 (10)	1773 (12)
	Elongation, % Minimum	150	160
	Specific Gravity	-	2.02
A1-10	<u>HEAT AGE, 70 HRS @ 250 C</u>		
	Durometer Change, Points	+10	+2
	Tensile Strength Change, % Maximum	-25	+4
	Elongation Change, % Maximum	-25	-8
B38	<u>COMPRESSION SET, 22 HRS @ 200 C</u>		
	Original Deflection, % Maximum	15	13.9
C12	<u>RESISTANCE TO OZONE</u>		
	ASTM D1171, Method B	No Cracks	Pass
C20	<u>RESISTANCE TO OUTDOOR AGING</u>		
	ASTM D1171	No Cracks	Pass
EF31	<u>FUEL AGE, 70 HRS @23C in Reference Fuel C</u>		
	Durometer Change, Points	+/-5	-1
	Tensile Change, % Maximum	-25	-14
	Elongation Change, % Maximum	-20	-12
	Volume Change, %	0/+10	+3
EO88	<u>FLUID RESISTANCE, 70 HRS @200C in Stauffer 7700/SAE Fluid No. 2</u>		
	Durometer Change, Points	-15/+5	-6
	Tensile Change, % Maximum	-40	-21
	Elongation Change, % Maximum	-20	-14
	Volume Change, % Maximum	+25	+8

SPECIFICATIONS MET

ASTM D2000-99 Grade M6HK810 A1-10 B38 C12 C20 EF31 EO88

Z1=Meets FDA 177.2600

Z2=Meets 3A Sanitary Class I requirements