

Mykin Inc
RV00175 BLACK ASTM SPEC VITON COMPOUND

GENERAL PROPERTIES

VITON is DuPont-Dow Elastomer's trade name for fluorocarbon elastomers. Mykin's fluorocarbon elastomers exhibit excellent resistance to high temperature and low compression set. They respond very well with resistance to ozone, high temperatures, oxygen, mineral oil, synthetic hydraulic fluids, fuels, aromatics and many organic solvents and chemicals over a temperature range of -20F to +400F. Low temperature resistance for static applications is limited to approximately -40°F (-40°C) under special formulation. Under dynamic conditions, the lowest service temperature is between 5°F and 0°F (-15°C and -18°C). Gas permeability is very low and similar to that of butyl rubber. Special formulation can also improve resistance to water, steam, acids and fuels.

ASTM Designation	ORIGINAL PROPERTIES	ASTM D2000 SPECIFICATION
	Durometer, Shore A	75+/- 5
	Tensile, psi (MPa), Minimum	1450 (10)
	Elongation, % Minimum	150
	Specific Gravity	-
A1-10	HEAT AGE, 70 HRS @ 250 C	
	Durometer Change, Points	+10
	Tensile Strength Change, % Maximum	-25
	Elongation Change, % Maximum	-25
B38	COMPRESSION SET, 22 HRS @ 200 C	
	Original Deflection, % Maximum	15
C12	RESISTANCE TO OZONE	
	ASTM D1171, Method B	No Cracks
C20	RESISTANCE TO OUTDOOR AGING	
	ASTM D1171	No Cracks
EF31	FUEL AGE, 70 HRS @23C in Reference Fuel C	
	Durometer Change, Points	+/-5
	Tensile Change, % Maximum	-25
	Elongation Change, % Maximum	-20
	Volume Change, %	0/+10
EO88	FLUID RESISTANCE, 70 HRS @200C in	
	Stauffer 7700/SAE Fluid No. 2	
	Durometer Change, Points	-15/+5
	Tensile Change, % Maximum	-40
	Elongation Change, % Maximum	-20
	Volume Change, % Maximum	+25
F15	LOW TEMPERATURE BRITTLENESS	
	ASTM D2137, Method A, 9.3.2	
	3 Minutes @ -25 C	Non-Brittle

SPECIFICATIONS MET

ASTM D2000-01 Grade M6HK810 A1-10 B38 C12 C20 EF31 EO88 F15