



TECHNICAL REPORT
A600-70 VAMAC (Ethylene Acrylic) COMPOUND

GENERAL PROPERTIES

VAMAC Compound Systems have a temperature use range of -40F to +300F and provide low temperature flexibility for automotive applications including automatic transmission seals, power steering seals and gear box seals. Resistance to weathering, ozone and air aging is very good.

		A600-70	
ASTM		ASTM D2000	LABORATORY
<u>Designation</u>	<u>ORIGINAL PROPERTIES</u>	<u>SPECIFICATION</u>	<u>PROPERTY</u>
	Durometer, Shore A	70 +/- 5	68
	Tensile, psi (MPa), Minimum	1450 (10)	2538 (17.5)
	Elongation, % Minimum	200	337
G11	Tear Resistance, (KN/m) Minimum	-	35.67
A47	<u>HEAT AGE, 168 HRS @ 175 C</u>		
	Durometer Change, Points	+20	+2
	Tensile Strength Change, % Maximum	-30	0
	Elongation Change, % Maximum	-65	-3
B37	<u>COMPRESSION SET, 22 HRS @ 175 C</u>		
	Original Deflection, % Maximum	75	17.2
B46	<u>COMPRESSION SET, 70 HRS @ 150C</u>		
	Original Deflection, % Maximum	75	13.8
EA14	<u>WATER RESISTANCE, 70 HRS @ 100 C</u>		
	Change in Volume, %	+15	+3.2
EO16	<u>ASTM #1 OIL , 70 HRS @ 150 C</u>		
	Durometer Change, Points	-10/+5	-5
	Tensile Strength Change, % Maximum	-25	-9
	Elongation Change, % Maximum	-35	-6
	Change in Volume, %	+/-10	+9.8
EO36	<u>ASTM #3 OIL , 70 HRS @ 150 C</u>		
	Tensile Strength Change, % Maximum	-50	-45
	Elongation Change, % Maximum	-50	-42
	Change in Volume, %	+60	+56.5

SPECIFICATIONS MET

* ASTM D2000-01 Grade M4EE710 A47 B37 B46 EA14 EO16 EO36 G11