

TECHNICAL REPORT E300-70 SULFUR-CURED EPDM COMPOUND

GENERAL PROPERTIES

Sulfur-Cured EPDM Compound Systems have a temperature use range of -65F to +300F. Steam service, however, is rated at up to 400F. Sulfur-Cured EPDM is the least costly and provides the best Tear and Abrasion Resistance compared to Peroxide-Cured Systems. EPDM Compounds are frequently used with foods, water and steam applications and offer the best resistance to ozone and weathering. EPDM's are not used with petroleum oils or fuels because significant swelling would result.

			E300-70
ASTM <u>Designation</u>	ORIGINAL PROPERTIES	ASTM D2000 SPECIFICATION	LABORATORY PROPERTY
	Durometer, Shore A Tensile, psi (MPa), Minimum	70 +/- 5	71
	Elongation, % Minimum	1450 (10) 200	2140 (14.8) 310
	Specific Gravity	-	1.17
A25	<u>HEAT AGE, 70 HRS @ 125 C</u>		
	Durometer Change, Points	+10	+4
	Tensile Strength Change, % Maximum	-20	-3
	Elongation Change, % Maximum	-40	-16
B35	COMPRESSION SET, 22 HRS @ 125 C		
	Original Deflection, % Maximum	50	42
C32	RESISTANCE TO OZONE		
	ASTM D1171, Method B	Pass	Pass
EA14	WATER RESISTANCE, 70 HRS @ 100 C		
	Volume Change, %	+/-5	+1.6
F17	LOW TEMPERATURE BRITTLENESS ASTM D2137, Method A, 9.3.2		
	3 Minutes @ -40 C	Non-Brittle	Pass
G21	TEAR RESISTANCE		
	Method D 624, Die C, Minimum kN/m	26	38

SPECIFICATIONS MET

MANUFACTURER'S CROSS REFERENCE

E300-70 is designed to meet or exceed the properties of these popular EPDM Compounds: E603-70, E1028-70, 3077, E14, E17016, 5601-70 and 559N.

^{*} ASTM D2000 Grade M5CA710 A25 B35 C32 EA14 F17 G21

^{*} FDA CFR 177.2600