



## Porter Seal Denver Compound Technical Report

### EPDM 70 duro, FDA (sulfur cure)

EPDM compounds have a temperature range of -65° F to +300° F. Sulfur cured EPDM is the least costly and provides the best tear and abrasion resistance compared to Peroxide cured EPDMs (which are also available in stock). EPDM compounds are frequently used with water, food and steam applications and offer the best resistance to ozone and weathering.

ASTM Designation	Original properties	D2000 Spec.	Result
	Durometer, Shore A	70 ± 5	71
	Tensile, psi (MPa), min.	2031 (14)	2140 (14.8)
	Elongation, % min	200	310
	Specific Gravity	-	1.17
A25	<u>Heat age, 70 hrs @ 125° C</u>		
	Durometer change, points	+ 10	+ 4
	Tensile strength change, % max	- 20	- 3
	Elongation change, % max	- 40	- 16
B35	<u>Compression set, 22 hrs @ 125° C</u>		
	Original deflection, % Max.	50	42
C32	<u>Resistance to ozone</u>		
	ASTM D1171, Method B	Pass	Pass
EA14	<u>Water resistance, 70 hrs @ 100° C</u>		
	Volume change, %	± 5	+ 1.6
F17	<u>Low Temperature Brittleness, 3 min @ -40° c</u>		
	ASTM D2137, Method A, 9.3.2	Non Brittle	Pass
G21	<u>Tear Resistance</u>		
	Method D 624, Die C, Minimum kN/m	26	38

#### Specifications met:

ASTM D2000-01 Grade M5CA714 A25, B35, C32, EA14, F17, G21  
FDA CFR 177.2600

#### EPDM is Recommended for

Ozone  
Steam  
Water  
Skydrol  
Silicone oils  
Dilute acids  
Ketones Alcohols  
Automotive brake fluids

#### EPDM is not Recommended for

Petroleum Oils  
D-ester based lubricants