



Porter Seal Denver
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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	MIL-R-83248C/1	Actual Result
Original properties		
Durometer, Shore A	70 ± 5	76
Tensile, psi (MPa), min.	2,031	2,140
Elongation, % min	200	310
Specific Gravity	-	1.17
A25 Heat age, 70 hrs @ 125° C		
Durometer change, points	+ 10	+ 4
Tensile strength change, % max	- 20	- 3
Elongation change, % max	- 40	-16
B35 Compression Set, 22 hrs @ 125° C		
% original deflection	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 Temp brittleness,, 3 min @ -40° C		
ASTM D2137, Method A, 9.3.2	Non-brittle	Non-brittle
G21 Tear resistance		
Method D 624, Die C, min 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