

# Material Property Data Sheet

## E300-70



### E300-70 Sulfur Cured EPDM

E300-70 is a food grade compound meeting FDA 21 CFR 177.2600 requirements for dry and aqueous based foods. This sulfur-cured EPDM provides better tear resistance, abrasion resistance and cost compared to peroxide-cured systems. EPDM compounds are frequently used with food, water and steam applications and offer great resistance to ozone, weathering, and a broad range of cleaning chemicals.

ASTM D2000 Designation	Physical Properties	Requirements	Typical Results
CA	Original Properties		
	Durometer, Shore A, D2240, pts	70+/-5	70
	Tensile, D412, MPa (psi), Minimum	10 (1450)	10.6 (1537)
	Elongation, D412, % Minimum	200	337
	Modulus @ 100% Elongation, MPa (psi)	-	2.7 (392)
	Specific Gravity, g/cm <sup>3</sup>	-	1.18
	Color	-	Black
A25	Heat Age, D865, 70 hrs @ 125°C		
	Durometer Change, Points	+10	-3
	Tensile Strength Change, % Maximum	-20	-18
	Elongation Change, % Maximum	-40	-23
B35	Compression Set, 22 hrs @ 100°C (Plied slabs)		
	Deflection, % Maximum	50	42
C32	Resistance to Ozone, Method D1171		
	Quality retention rating, % Minimum	100	100
EA14	Water Resistance, D471, 70 hrs @ 100°C		
	Volume Change, % Maximum	+/-5	+1.6
F18	Low-Temp Resistance, D2137, Method C, 9.3.3		
	Nonbrittle after 3 min at -50°C	Pass	Pass
G21	Tear Resistance, D624, Die C		
	Minimum kN/m	26	38

NOTICE: The information included in this data sheet is believed to be accurate and reliable. Boyd assumes no responsibility for end use applications and no performance warranty is expressed or implied.

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### Specifications Met

ASTM D2000 M5CA 710 A25 B35 C32 EA14 F18 G21

REACH SVHC 235

RoHS 2015/863

California Proposition 65\*

Dodd-Frank Consumer Protection Act: No conflict materials (Tantalum, Tin, Tungsten & Gold)

FDA 21 CFR 177.2600

Halogen Free (none intentionally added)

\*This compound may contain trace amounts of these impurities included in California Prop 65:

Benz[a]anthracene 56-55-3

Benzo[b]fluoranthene 205-99-2

Benzo[j]fluoranthene 205-82-3

Benzo[k]fluoranthene 207-08-9

Benzo[a]pyrene 50-32-8

Chrysene 218-01-9

Dibenz[a,h]anthracene 53-70-3

Naphthalene 91-20-3

Indeno[1,2,3-cd]pyrene 193-39-5

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