

EPDM o-rings, or ethylene propylene o-rings, offer lower cost steam and chemical resistance. With great heat stability and resistance to compression set, EPDM is often characterized by wide range of applications and resistance to the elements. E1000 is manufactured to be FDA compliant and NSF 61.

ABOUT #E1000

E1000 is peroxide cured for improved aging, thermal stability, and chemical resistance. It is NSF 61 compliant for drinking water applications and FDA compliant per 21 CFR 177.2600. Compare to Parker E1549-70 and Parco 5323-70.

FEATURES

- FDA 21 CFR 177.2600 Compliant for Food Contact Applications
- NSF61 Certified for Drinking Water Applications
- Resistant to ketones, hot and cold water, steam, alkalis, polar solvents, ozone, sunlight, alcohols, glycol engine coolant and Skydrol (phosphate ester hydraulic fluid).

APPLICATION EXAMPLES

- Applications involving solvents, acids, brake fluids, and other aggressive chemicals.
- Steam applications
- Outdoor weathering applications

ADDITIONAL INFORMATION

- Service Temperature of -65° to 300°F
- Cure System: Peroxide
- Spec: ASTM D2000 M4CA710 A25 B35 C32 EA14 F19 G21

This information is accurate and reliable to the best of our knowledge. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use.

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	74
Color	Black	Black
Tensile Strength, psi	10.0 (1,450)	12.8 (1,850)
Ultimate Elongation, %, min.	150	210
Modulus at 100% elongation, psi	Report	800
Specific Gravity	Report	1.15
HEAT AGING – A25, ASTM D 865 (70 hrs. @ 125°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, max.	10	2
Tensile Strength Change, %, max.	-20	7
Ultimate Elongation Change, %, max.	-40	-8
COMPRESSION SET – B35, ASTM D395 Method B (22 hrs. @ 125°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set, % Max.	70	13
OZONE RESISTANCE – C32, ASTM D1171 Method B	ASTM D2000 Requirements	Typical Test Results
No Crack	Pass	Pass
FLUID RESISTENCE, Water – EA14, ASTM D471 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Volume Change, %	±5	1
LOW TEMPERATURE RESISTANCE – F19, ASTM D2137 Method A, 9.3.2	ASTM D2000 Requirements	Typical Test Results
Non-brittle after 3 min. @ -55°C	Pass	Pass
TEAR RESISTANCE – G21, ASTM D624	ASTM D2000 Requirements	Typical Test Results
Die C, kN/m, min.	26	27
FLUID AGED, Chloramine – D471, (1 Week @ 70°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	Report	-1
Volume Change, %	Report	4
FLUID AGED, Chloramine – D471, (2 Weeks @ 70°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	Report	-1
Volume Change, %	Report	3
FLUID AGED, Chloramine – D471, (3 Weeks @ 70°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	Report	-2
Volume Change, %	Report	5
FLUID AGED, Chloramine – D471, (4 Weeks @ 70°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	Report	-1
Volume Change, %	Report	6

FLUID AGED, Chloramine – D471, (5 Weeks @ 70°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	Report	-1
Volume Chage, %	Report	6