E1001 MATERIAL SUMMARY

80 Durometer, Black, Peroxide Cured EPDM

Request a Quote

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. E1001 is manufactured to be 80A durometer.

ABOUT #E1001

E1001 is peroxide cured for improved aging, thermal stability, and chemical resistance. It is 80A durometer for improved resistance to high pressures and abrasion.

FEATURES

- Resistance to weathering and outdoor environments.
- Good Permeation Resistance.
- Good heat and compression resistance.
- 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 2DA815 A26 B36 C32 F19 G11 G21 EA14

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.

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PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	80 +/- 5	79
Color	Black	Black
Tensile Strength, psi	1450	2019
Ultimate Elongation , %, min.	150	221
Modulus at 100% elongation, psi	Report	875
Specific Gravity	Report	1.11
Tear resistance, Die C, ppi	Report	181
HEAT RESISTANCE – A26, D865 (70 hrs. @ 150°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, max.	10	2.7
Tensile Strength Change, %, max.	-20	-5.4
Ultimate Elongation Change, %, max.	-20	3
COMPRESSION SET PILED – B36, D395 method B, (22 hrs. @ 150°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set, Percentage °F original deflection. Max.	40	14.3
FLUID RESISTENCE, Water – EA14, D471 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Volume Change, %	±5	0.1
LOW TEMPERATURE RESISTANCE –ASTM D2137 Method A, 9.3.2	ASTM D2000 Requirements	Typical Test Results
Non-brittle after 3 min. @ -55°C (F19)	Pass	Pass
TR-10 °C (°F)	Report	-46 (-51)