

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. E1005 is a 70A durometer sulphur cured material.

## ABOUT #E1005

E1005 is sulphur cured for improved tensile strength, tear resistance, and low cost. There are also peroxide cured EPDM materials available for purchase.

## 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 265°F
- Cure System: Sulphur
- Spec: ASTM D2000 M2BA710 A14 A25 B13 B35 C12 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	70
Color	Black	Black
Tensile Strength, psi	1450	1900
Ultimate Elongation, %	250	300
Tear Strength, KN/m	26	44
Specific Gravity	Report	1.18
<b>HEAT RESISTANCE – A14, (70 hrs. @ 100°C)</b>	<b>ASTM D2000 Requirements</b>	<b>Typical Test Results</b>
Hardness Change, points, max.	+/- 15	1
Tensile Strength Change, %, max.	+/- 20	2
Ultimate Elongation Change, %, max.	-50	-10
<b>HEAT RESISTANCE – A25, (70 hrs. @ 125°C)</b>	<b>ASTM D2000 Requirements</b>	<b>Typical Test Results</b>
Hardness Change, points, max.	10	3
Tensile Strength Change, %, max.	-20	14
Ultimate Elongation Change, %, max.	-40	-23
<b>COMPRESSION SET – B13, ASTM D 395 Method B (22 hrs. @ 70°C)</b>	<b>ASTM D2000 Requirements</b>	<b>Typical Test Results</b>
Permanent Set, %, max.	25	13
<b>COMPRESSION SET – B35, ASTM D 395 Method B (22 hrs. @ 125°C)</b>	<b>ASTM D2000 Requirements</b>	<b>Typical Test Results</b>
Permanent Set, %, max.	70	17
<b>OZONE RESISTANCE – @ 40°C, 50 x 10-8, 20% stretch for 72 hrs.</b>	<b>ASTM D2000 Requirements</b>	<b>Typical Test Results</b>
Permanent Set, %, max.	No Cracks	Pass
<b>LOW TEMPERATURE RESISTANCE – F19, ASTM D 2137 Method A, 9.3.2</b>	<b>ASTM D2000 Requirements</b>	<b>Typical Test Results</b>
(Non-brittle after 3 min. @ -55°C)	Non Brittle	Pass