

Marco Compound # E1005

70 Durometer, Black, Sulphur Cured EPDM

Technical Datasheet

Common Names:

Ethylene-Propylene (EP, EPDM)

General Description:

EPDM rubber (ethylene propylene diene monomer rubber) is an elastomer which is characterized by wide range of applications and good chemical resistance. Marco compound E1005 is a general purpose, commodity grade, sulphur cured EPDM.

Features:

- 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).

Limitations:

- Not recommended for oils, gasoline, kerosene, aromatic and aliphatic hydrocarbon, halogenated solvents, concentrated acids, non-polar solvents, petroleum oils and aromatic fuels.

Cure System:

- Sulfur

Service Temperature:

-65 to 265° F (-55 to 130° C)

Specification:

ASTM D2000 M2BA710 A14 B13 C12 G21 F19

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	70
Color	Black	Black
Tensile Strength, psi	1,450	1,900
Ultimate Elongation, %	250	300
Tear Strength, G21, KN/m	26	44
Specific Gravity	Report	1.18

HEAT RESISTANCE – A14, (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, max.	+/- 15	1
Tensile Strength Change, %, max.	+/- 20	2
Ultimate Elongation Change, %, max.	-50	-10

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

COMPRESSION SET – B13, ASTM D 395 Method B (22 hrs. @ 70°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set, %, max.	25	13

OZONE RESISTANCE – C12, 40°C, 50 x 10-8, 20% stretch for 72 hrs.	ASTM D2000 Requirements	Typical Test Results
Permanent Set, %, max.	No Cracks	Pass

LOW TEMPERATURE RESISTANCE – F19, ASTM D 2137 Method A, 9.3.2	ASTM D2000 Requirements	Typical Test Results
Non-brittle after 3 min. @ -55°C	Non Brittle	Pass

Date: 2016-7-1

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