



## **306 - Ethylene Propylene & Ethylene Propylene Diene Rubber**

### **(EPM, EPDM)**

Temperature Range: Sulphur Cured     -50°C to +120°C (-60°F to +250°F)

Temperature Range: Peroxide Cured     -50° C to +150°C (-60°F to +300°F)

Ethylene propylene rubber is an elastomer prepared from ethylene and propylene monomers (ethylene propylene copolymer) and at times with an amount of a third monomer (ethylene propylene terpolymers).

EPM and EPDM have a great acceptance in the sealing world because of its excellent resistance to heat, water and steam, alkali, mild acidic and oxygenated solvents, ozone, and sunlight. These compounds also withstand the effect of brake fluids and Skydrol and other phosphate ester-based hydraulic fluids. EPDM compounds are not recommended for gasoline, petroleum oil and grease, or hydrocarbon environments.

Special EPDM compounds have good resistance to steam.

- EPDM Sulphur cured: inexpensive material for normal use, maximum temperature of up to +120°C (+250°F).
- EPDM Peroxide cured: for hot water, vapor, alcohols, ketones, engine coolants, organic and inorganic acids and bases. Not resistant to mineral oils. For maximum temperatures of up to +150°C (+300°F).

Ref	Specification	Hardness IRHD	SG	Tensile Strength (MPa)	Elongation at Break %	Colour
E404	ASTM D2000	40°	1.06	9	500	Black
E509	High Grade	50°	1.11	10	400	Black
E605	Commercial	60°	1.30	7	220	Black
E606	Food Quality	60°	1.39	6	480	White
E609	High Grade	60°	1.22	9	250	Black
E701	Commercial	70°	1.40	4	200	Black
E709	High Grade	70°	1.24	9	210	Black
E707	WRC Approved	70°	1.12	10	400	Black
E807	WRC Approved	80°	1.17	10	250	Black

The information above is supplied in good faith and believed to be correct. This information is supplied upon the condition that persons receiving this will make their own determination as to its suitability for their purposes prior to use. EMI makes no representations or warranties, either expressed or implied with respect to the information or the product to which this information refers.

306 – Intro Issue 03 01/14

t: +44 (0)1590 688022  
f: +44 (0)1590 673055

e: enquiries@emiseals.com  
w: www.emiseals.com

EMI Group, 370 Ampress Lane, Lymington, Hampshire, SO41 8JX, England