

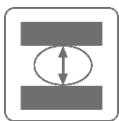
M SEALS EP-B76

Soft grade Peroxide Cured EPDM Rubber

MATERIAL DATA SHEET (Version 6.0 – 05.2022)



Low Temperature



Compression Set Resistance



Excellent Elasticity & Rebound

Description

M Seals material EP-B76 is a soft peroxide cured Ethylene-Propylene-Diene-Monomer rubber (EPDM). EP-B76 soft EPDM Rubber material has excellent compression set values and resistance to both hot and cold water as well as steam, diluted acids, bases and DOT3, DOT4 and DOT5.1 brake fluids making it an ideal choice for use in braking cylinders / systems; Although we thoroughly advise you test products in their specific application to determine performance, efficiency and safety for each end-use product, device or application.

This compound or any other EPDM product **should not** be used where the presence of Hydrocarbon fluid, greases, vegetable oils and/or animal fats will be found. Please contact the M Seals technical team if you require assistance.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Density	DIN ISO 1183-1	g/cm ³	1.39
Hardness	DIN 53505	Shore A	76 (+/-5)
Tensile Strength	DIN 53504	MPa	15.8
Elongation at break	DIN 53504	%	340
Compression set (24 Hours @ 100°C)	DIN ISO 815-1	%	13.6
Compression set (24 Hours @ 125°C)	DIN ISO 815-1	%	21.6
Rebound Resilience	DIN 53512	%	39
Abrasion Resistance	DIN 53516	mm ³	154
Minimum service temperature		°C	-40
Maximum service temperature		°C	+135

Main Characteristics

- Resistance to DOT3, DOT4 & DOT5.1 Brake fluid
- Excellent hot water & steam resistance
- Excellent compression set characteristics
- Excellent elasticity and rebound resilience
- Softer compared to our standard grades of EPDM

Typical Products

- Brake cylinder seals
- Piston U seals with high deflection
- Static Seals & O-Rings
- Parts used in hot water & steam
- Stretch-Fit seals

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: sales.esd@m-seals.co.uk . Web: www.m-seals.com

M Seals believes that the information above is an accurate description of the typical characteristics and/or uses of the product or products, however M Seals makes no warranty, expressed or implied, that parts manufactured from this / and/or any other material will perform satisfactorily in the customers application. It is the customers responsibility to thoroughly test products in their specific application to determine performance, efficiency and safety for each end-use product, device or application. The information and data contained herein are based on standard test pieces according to the corresponding ISO, DIN & ASTM standards and cannot be directly related to finished seals, gaskets or other sealing products and should be used only as a general guide.