

EPDM Peroxide Cured (EP)

EPDM is a black Ethylene Propylene Rubber, commonly referred to as EPDM. These materials are often used in hot water or steam applications as well as in fire resistant fluids where no mineral oil is used. EPDM materials are also used in bases, acids and alcohols. The use of EPDM in brake fluids is only recommended dependant on the regional regulations. EPDM is not resistant to mineral-, vegetable- and animal oils.

PHYSICAL PROPERTIES

| | | | |
|---------------------------|------------|-------------------|------|
| Specific gravity | DIN 53479 | g/cm ³ | 1.23 |
| Hardness at 20°C | DIN 53505 | Shore A | 86 |
| Tensile strength | DIN 53504 | N/mm ² | >14 |
| Elongation at break | DIN 53504 | % | >137 |
| Compression set 22h/70°C | DIN 53517A | % | 16 |
| Compression set 22h/100°C | DIN 53485 | % | 13 |
| Min. Sevice temperature | | °C | -50 |
| Max. Sevice temperature | | °C | 130 |

MAIN APPLICATION

| |
|-------------------------------------|
| Seals (standard and special) |
| Wipers |
| Rotary seals |
| O - Rings, Flange seals and gaskets |

CHEMICAL RESISTANCE

| | |
|-----------------|---|
| Water up to 70° | R |
| Water up to 90° | R |
| HFA | U |
| HFB | U |
| HFC | R |
| HFD | S |
| Mineral Oils | U |
| Vegetable Oils | U |
| Fuels | U |
| Ozone | R |
| Air up to 100° | R |
| Air up to 150° | U |
| Air up to 200° | U |

KEY TO CHEMICAL RESISTANCE

| |
|----------------|
| R = resistance |
| S = suitable |
| U = unsuitable |

ANALYSIS AND EVALUATION

The mentioned properties are only valid for testpieces of the corresponding ISO, DIN and ASTM standards. They cannot be directly related to seals, gaskets and other sealing products and should be used only as a general guide.