

What is EPDM?

EPDM seals are suitable to be used in processes that involve steam, hot water, chemicals and electrical industry. EPDM exhibits very good resistance towards ozone and oxygen, as well as good to excellent resistance towards heat and irradiation, against aqueous systems, polar media and a range of acidic and alkaline chemicals. EPDM is typically preferred for outdoor applications and applications at elevated temperatures. EPDM cannot be used in service with aliphatic solvents, gasoline and oil due to its poor resistance towards aliphatic/aromatic hydrocarbons and ASTM oils. The service temperature range of EPDM is approximately between -35 to +120°C.

Properties of EPDM

- Outstanding ozone resistance
- Excellent heat resistance
- Good resistance towards oxidizing chemicals, hot water, acids, and alkalis
- Excellent electrical resistance
- Low-temperature flexibility

Declarations of conformity	Country	Explanation	Conformity
REACH (EC) 1907/2006	EU		Yes
RoHS	EU		Yes
BfR	DE	food contact	No*
FDA	USA	FDA § 177.2600	No*
(EG) 1935/2004	EU	food contact	No*
(EG) 2023/2006 (GMP)	EU	GMP	No*
3-A Sanitary	USA		No*
USP	USA		No*
ACS	F	drinking water	No*
DIN EN 681	EU		No*
Kiwa	NL		No*

**Compliance statements here are only applicable for the standard items showcased in our portfolio. Sigma Polymer Group has the capabilities to tailor products according to your specific conformity requirements.*



Abrasion resistance
3



Oil and fuel resistance
1



Oxidations resistance
5



Ozone resistance
5



Water resistance
5



Fire resistance
1

Resistance grades

- 5 Excellent
- 4 Very good
- 3 Good
- 2 Fair
- 1 Bad