



# EPDM



## Standard Compounds for Machined Seal

EPDM: Ethylene-propylene is a copolymer of ethylene and propylene (EPM), or, in some cases, a terpolymer due to the addition of a diene monomer (EPDM). EPDM O-rings have great resistance to weathering and steam. A special characteristic of EPDM is its resistance to certain brake and hydraulic fluids (including Pydraul® and Fyrquel and Skydrol®). Not suitable with most hydrocarbons, such as oils, gasoline, kerosene and petroleum oils.

AKA: EPDM, EPM, EP

Compound	---	S24 E01	S24 E02	S24 E03	S24 E04
<b>Features</b>	---	FDA 1935-2004 BS6920 Cold Water DVGW W-270 D1-D2 KTW D1 & D2	General Purpose	FDA Compliant	FDA Compliant
<b>Color</b>	---	Black	Black	White	Black
<b>Hardness</b> ISO 868	Shore A	81	85	82	85
<b>Minimum Temperature</b>	°F	-40	-49	-49	-49
<b>Maximum Temperature</b>	°F	266	266	266	266
<b>Modulus @ 100%</b> DIN 53504	psi	≥725	---	≥580	≥1160
<b>Tensile Strength</b> DIN 53504	psi	≥1740	≥1740	≥1015	≥1450
<b>Elongation @ Break</b> DIN 53504	%	150	≥60	≥160	≥100



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Compound	---	S24 E01	S24 E02	S24 E03	S24 E04
<b>Tear Strength</b> DIN ISO 34-1	lbf/inch	≥45	≥55	---	≥23
<b>Specific Gravity</b> ISO 1183	g/cm <sup>3</sup>	1.17	1.22	1.22	1.19
<b>Rebound Elasticity</b> DIN 53512	%	41	37	50	40
<b>Abrasion</b> DIN 53516	mm <sup>2</sup>	---	140	291	---
<b>Compression Set</b> ISO 815 24h 158 °F 25% def	%	≤15	≤7	≤25	≤10
<b>Compression Set</b> ISO 815 24h 212 °F 25% def	%	---	≤7	≤30	≤10
<b>Compression Set</b> ISO 815 24h 302 °F 25% def	%	---	---	≤	---

**TEST DATA ONLY - DO NOT USE FOR SPECIFICATION**

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