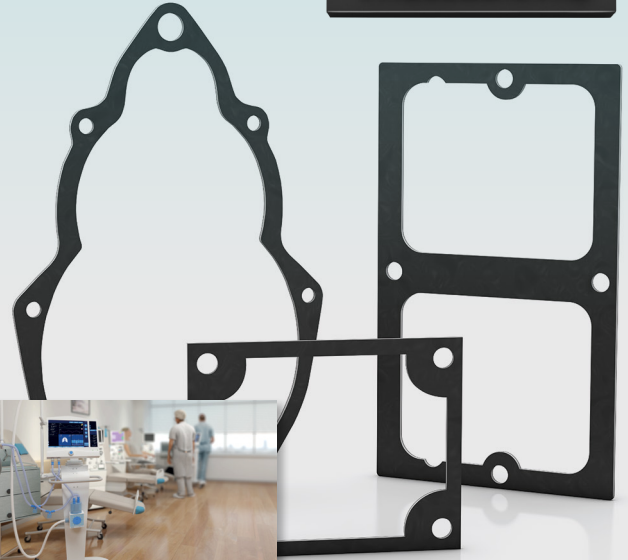




# HiMod® FlatSeal™ EG

MEETING PHARMACEUTICAL, MEDICAL AND BIOTECH REQUIREMENTS



## A range of gaskets to meet market needs

The HiMod® FlatSeal™ range consists of products that will satisfy the requirements of the majority of gasket applications within aerospace, chemical, processing, food & beverage and Pharmaceutical industries. It offers compliance with virtually all relevant standards including FDA, USP Class VI and those for blowout and fugitive emissions.

### HiMod® FlatSeal™ EG (HMFEG)

A new series of EPDM FlatSeal™ that meets U.S. Pharmacopoeia (USP) Class VI certification. The new series meets the specific needs of pharmaceutical, medical and biotech equipment manufacturers who seek USP Class VI certified flat seals.

### Applications

- Tanks
- Vessels
- Bio Reactors
- Pipe Flanges
- Autoclaves

## Features and benefits

- USP Class VI certification ensure processing integrity; simplifies compliance
- An added level of confidence that assures favorable compatibility results, reducing the burden of regulatory compliance.
- Outstanding combination of USP Class VI certification and worldclass engineering, materials and technical expertise
- Good mechanical properties
- Cost effective processing of flat gasket
- O-Rings, molded parts and flat gaskets with one material (E7581/HMFEG)
- Good media resistance and temperature range

## Good for people and the environment

HiMod® FlatSeal™ EG is manufactured in facilities that comply with ISO/TS 16949 and ISO 14001. This means complete transparency in all areas of production and a high degree of security for our customers.

## TECHNICAL INFORMATION ABOUT HIMOD® FLATSEAL™ EG

### Material data

General data	
<b>Elements</b>	Pure EPDM with USP Class VI (E7581/HMFEG)
<b>Approvals</b>	ACS, ADI-free, BAM, FDA, EC 1935/2004, USP Chapter 87 & 88, W270, WRAS
<b>Color</b>	Black
<b>Thickness</b>	2mm; Further thicknesses available on request

Material Properties	Standard	Unit	Value**
<b>Hardness</b>	DIN ISO 7619-1	Shore A	70 ±5
<b>Density</b>	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1.15 ±0.02
<b>Modulus 100%</b>	DIN 53 504	MPa	4.8
<b>Temperature Range</b>		°C	-45 to +150
<b>Tensile strength</b>		MPa	≥10
<b>Elongation at break</b>		%	≥125
<b>Compression set</b> (24h / 150 °C)	DIN ISO 8150-1 A	%	11

Physical properties Gasket thickness 2.0 mm	Standard	Unit	Measured Values		
			Air 72h / 150 °C DIN 53 508	Water 72h / 100 °C DIN ISO 1817	Steam 72h / 100 °C DIN ISO 1917
<b>Change of hardness</b>	DIN ISO 7619-1	Shore A	4	0	-1
<b>Tensile strength</b>	DIN 53 504	MPa	13.2	15.1	15.8
<b>Change of tensile strength</b>	DIN EN ISO 1183-1	%	-19	-7	-2
<b>Elongation at break</b>	DIN 53 504	%	146	181	192
<b>Change of elongation at break</b>	DIN 53 504	%	-26	-8	-2
<b>Change of weight</b>	DIN 53 504	%	-1	1	1
<b>Change of volume</b>	DIN 53 512 (6 mm)	%		1	1

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