

# PTFE TFM™ ENVELOPE GASKET, WITH INNER DIFFUSION BARRIER AND GRAPHITE INSERT

7173ED10

The PTFE envelope is made of TFM™ 1600 with an inner diffusion barrier [3 mm wide] and a graphite insert in Sigrflex Email [3 mm thick]. Leading enamel flange manufacturers recommend this seal up to DN 250 nominal width upward. Where widths are greater the use of sealing system IDT Profile ED30 6.5 mm is recommended for its greater resilience.



TFM™ is a modified PTFE [mPTFE]. This material is still part of our portfolio. Alternatively, we process mPTFE such as INOFLON® M295 or DAIKIN® MG3 MOD-FF/HD.

## Operating data

Temperatur [min]	-269 °C
Temperatur [max]	260 °C
Pressure [max]	40 bar

## Gasket characteristics EN 13555

Gasket Characteristics [Amtec]

[https://idt-gaskets.com/download/dichtungskennwerte/28C8\\_365](https://idt-gaskets.com/download/dichtungskennwerte/28C8_365)

## Gasket characteristics DIN 2505 V

$K_0 \times K_d$ [N/mm]	$8 \times b_d$
k1 [mm]	$1,1 \times b_d$

## Gasket characteristics DIN 28090

$\sigma_{V0}$ [N/mm <sup>2</sup> ]	90
$\sigma_{VU 0,1}$ [N/mm <sup>2</sup> ]	8
m [DIN 28090]	1.1
$\sigma_{B0 150 °C}$ [N/mm <sup>2</sup> ]	60

## Gasket characteristics ASME

m [ASME]	2
Y [PSI]	1200

This datasheet on the internet: <https://idt-gaskets.com/products/gaskets/61f7e49eed984879b>

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## Approvals and test reports

TA Luft 2002 [VDI 24A0/2200]

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DIN EN13555 [TA Luft 2021]

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Blow-out resistance

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BAM oxygen

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BAM oxygen [liquid]

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Drinking Water [KTW; WRAS]

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WRAS

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W270

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FDA [Food]

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EG 1935/2004

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## Flange shapes

Self-centering, Raised Face [form IBC]

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Glass-lined, Enamelled flange

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GRP flange

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Plastic flange

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PTFE-lined steel flange

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Further sealing systems and technical information can be found [idt-gaskets.com](https://www.idt-gaskets.com)

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