

# HEROCOMP PTFE COMPOUNDS

# PEEK SERIES

# PTFE+PEEK



**Herocomp PEEK** is a **polytetrafluoroethylene** (PTFE) compound series filled with **Polyetheretherketone**. PEEK is added into high quality Virgin PTFE in different percentages in order to fulfill specific customer requirements. The family of **PEEK Compounds** is particularly suitable for **heavy duty** and **self-lubricated** sealing applications where temperature **resistance and dimensional stability** are required. It also offers an **excellent chemical resistance and low out gassing properties**.

## MAIN BENEFITS

- ✓ High loading resistance
- ✓ Excellent dimensional stability at high temperature
- ✓ Excellent resistance to abrasion
- ✓ Good chemical resistance
- ✓ Reduced cold-flow
- ✓ Excellent hydrolysis resistance

## PROCESSING

- ✓ Compression moulding
- ✓ Automatic moulding
- ✓ Isostatic moulding
- ✓ RAM extrusion

## APPLICATIONS

- ✓ Self-lubricated bearings
- ✓ Sealing elements
- ✓ Compressor rings
- ✓ High speed rotating radial seals
- ✓ Back-up rings

PROPERTY	TEST METHOD	UNIT	10PEEK-FF	15PEEK-FF	20PEEK-FF
<i>FF Free-Flowing Grade for Compression Molding</i>					
Bulk density	ASTM D4894	g/l	400	600	600
Specific gravity	ASTM D4894	-	2,04 +/- 0,03	1,98 +/- 0,03	1,92 +/- 0,04
Tensile strength	ASTM D4894	MPa	22	19	15
Elongation	ASTM D4894	%	280	255	225
Hardness	NEEDLE	Shore D	61 +/- 3	63 +/- 3	64 +/- 3
Diametric shrinkage	INTERNAL	%	3,5 +/- 0,4	4,2 +/- 0,4	4,5 +/- 0,5
Coefficient of Friction	ISO 7148	-	0,26	0,31	0,36
K Factor	ISO 7148	x10 <sup>-7</sup> mm <sup>3</sup> /N.m	4,6	11,9	18,7

These are Typical Values not suitable for specification purposes

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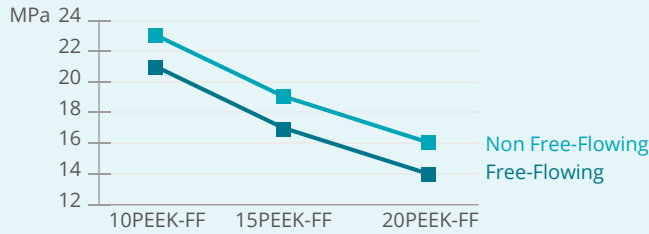
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PRODUCT | PEOPLE, PASSION, INNOVATION.

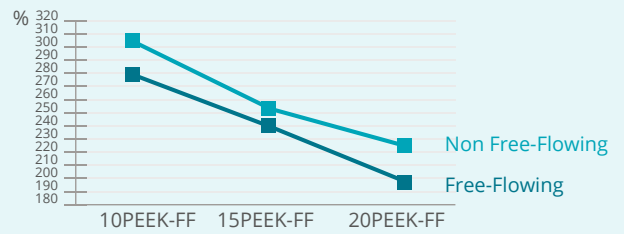


**Herocomp PEEK Series** includes compounds with **different percentages of filler and formulation up to 40%**. These compounds can also be formulated with **Virgin Modified PTFE** polymer base. Herocomp PEEK Series available grades are: **Non Free-Flowing (NFF)**, **Free-Flowing (FF)**, **Free-Flowing High Density (FF/HD)** and **Pre-Sintered (E)**.

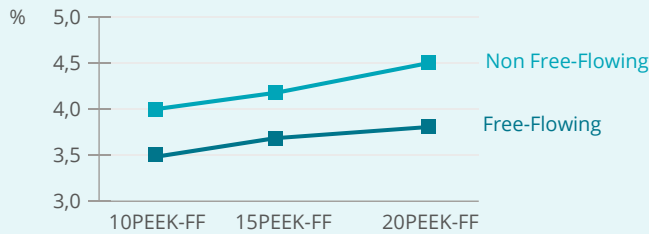
### Tensile Strength



### Elongation

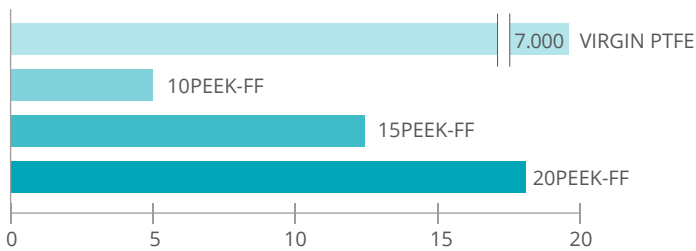


### Diametric Shrinkage

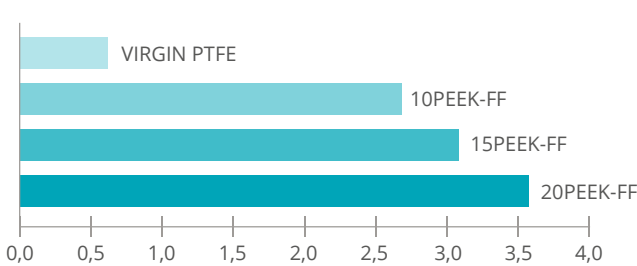


### Factor K (Pin on Ring: Speed 4 m/s Load 3,5 bar)

$\times 10^{-7} \text{mm}^3/\text{N.m}$



### Coefficient of Friction



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