

# FEP

## Fluorinated ethylene propylene

Properties	Norm	Value	Unit
<b>Mechanical properties</b>			
Hardness shore D	DIN 53 505	55 - 60	Sh. D.
Ball pressure hardness	DIN 53 456	23 - 28	N/mm <sup>2</sup>
Tensile strenght (23°C)	DIN 53 455	20 - 25	N/mm <sup>2</sup>
Elongation at break (23°C)	DIN 53 455	250 - 350	%min
Tensile modulus	DIN 53 457	350 - 700	N/mm <sup>2</sup>
Coefficient of friction v-steel - dynamic	-	0,35	-
<b>Physical properties</b>			
Water absorption	DIN 53 495	0,03	%
<b>Electrical properties</b>			
Dielectric strenght	DIN 53 481	50 - 80	KV/mm
<b>Thermal properties</b>			
Coefficient of thermal expansions (20-100°C)	-	12	1/K.10-5
Thermal conductivity (23°C)	DIN 53 612	0,20	W/K.m
Maximum Continous operating temperature	-	205	°C
Minimum Continous operating temperature	-	-100	°C

### Product Properties

- Excellent mechanical properties
- Extremely high weathering resistance and UV stability
- High thermal resistance
- Good light transmission (visible and UV)
- Low friction behaviour
- Flame retardant
- Excellent chemical resistance
- Very low surface energy
- Excellent dielectric properties
- Very low surface roughness

**Disclaimer:** Information contained in this data sheet is up-to-date and correct as at the date of issue. The given information is only informative and we cannot guarantee the accuracy nor can we take any accountability for the use of this information. The customer is responsible for the quality of products and has to test usage and processing to use. Some values are based on the datasheet of supplier, internal test and research. The values are guideline values that can be used for comparison for material selection.