



## Dexnyl© PEEK Mod. SF Films\_22

## Technical Datasheet

This film is made of a special PEEK compound containing carbon fibres and various mineral fillers. Film is specifically designed to give excellent wear resistance under dry and wet conditions with metal counter parts.

### Physical and Mechanical Properties:

Density	ISO 1183	g/cm <sup>3</sup>	1,61
Water absorption		%	< 0,1
Tensile strength at 23°C	ISO 527	N/mm <sup>2</sup>	145
Tensile elongation at 23°C	ISO 527	%	1,8
Tensile modulus	ISO 527	N/mm <sup>2</sup>	13000

### Thermal Properties:

Long-term service temperature	UL746B	°C	250
Coefficient of linear thermal expansion	DIN 53752	10E-5/K	1,5
Thermal conductivity	DIN 52612	Wm/K	1,5

### Wear Properties:

Coefficient of friction	(v=1,5 m/s; F=10N; RT)	1	approx. 0,2
Specific wear rate	(v=1 m/s; p=1MPa; RT)	10 <sup>-6</sup> mm <sup>3</sup> /Nm	approx. 0,3



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All the tests have been conducted with a standard conditioning atmosphere of 23°C (at the moment no other temperature is available). All the test specimens were made through extrusion process. The specified values are established from average values of several tests and they correspond to our today's knowledge. They are only to be used as information about our products and as help for the material selection. With these values, BIEGLO does not ensure specific properties, or the suitability for certain application, therefore BIEGLO does not assume any legal responsibility for an improper usage. Since the plastics' properties depend on the manufacturing process (extrusion, injection moulding), on the dimensions of the semi-finished material and on the degree of crystallinity, the actual properties of a specific product may slightly deviate from the tested ones. For information about divergent properties do not hesitate to contact us. On request we advise you regarding the most appropriate component design and the definition of material specifications more suitable to your application data. Notwithstanding, the customer bears all the responsibility for the thorough examination of suitability, efficiency, efficacy and safety of the chosen products in pharmaceutical applications, medical devices or other end uses.  
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