

## Dexnyl® PEEK-SF Film\_22

## Technical Datasheet

BIEGLO PEEK-Film is a semi-crystalline thermoplastic film with high crystallinity made of Polyetheretherketone.

### Main characteristics:

**excellent radiation resistance**  
**excellent chemical and hydrolysis resistance**  
**excellent mechanical properties**  
**high thermostability**  
**opaque**  
**stress crack resistant**  
**FDA Food contact compliant**

### Physical Properties:

Density	ISO 1183	g/cm <sup>3</sup>	1,30
Glass Transition Temperature	ISO 11357	°C	143
Crystalline Melting Point	-	°C	343

### Mechanical Properties

Yield Tensile Strength at 23°C	ISO 527	N/mm <sup>2</sup>	90
Yield Tensile Elongation at 150°C	ISO 527	N/mm <sup>2</sup>	35
Tensile Strength at 23°C	ISO 527	N/mm <sup>2</sup>	130
Tensile Strength at 150°C	ISO 527	N/mm <sup>2</sup>	80
Tensile Elongation at 23°C	ISO 527	%	170
Tensile Elongation at 150°C	ISO 527	%	300
Tensile Modulus	ISO 527	N/mm <sup>2</sup>	3200
Initial Tear Resistance	EN 60674	N	140
Tear Propagation Resistance	ISO 8296	N/mm	240

### Electrical Properties

Dielectric Constant at 1kHz/23°C	IEC 250	-	3,3
Dissipation Factor 1kHz 23°C	IEC 250	-	0,0013
Volume Resistivity	IEC 93	Ohm.cm	10 <sup>17</sup>
Surface Resistivity	IEC 93	Ohm	10 <sup>15</sup>
Dielectric Strength	IEC 243	kv/mm	180

### Thermal Properties

Long-term service temperature	UL746B	°C	22 0
Flammability	UL94	VTM/μ	0/25
Thermal expansion coefficient x10 <sup>6</sup>	E831	1/°K	46
Thermal conductivity x10 <sup>2</sup>	DIN 52612	W/mK	25