

### Technical Data Sheet



## SustaPVDF HG natural

PVDF

#### Typical characteristics

- High purity
- UV-resistant
- Good toughness
- Chemical resistant
- High temperature resistance
- ISO 10993-5 tested on semi-finished product

#### Typical industries

- Healthcare

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,78
Water absorption	DIN EN ISO 62	%	0,0
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0/V0
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	55
Elongation at break	DIN EN ISO 527	%	30
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2100
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	12
Shore hardness	DIN EN ISO 868	scale D	80
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	178
Thermal conductivity	DIN 52612-1	W / (m * K)	0,2
Thermal capacity	DIN 52612	kJ / (kg * K)	1,20
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	140
Service temperature, long term	Average	°C	-20..140
Service temperature, short term (max.)	Average	°C	150
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	115
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		9



	Test method	Unit	Guideline value
Dielectric dissipation factor (50 Hz)	IEC 60250		0,02
Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	$10^{14}$
Surface resistivity	DIN EN 62631-3-2	$\Omega$	$10^{14}$
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	21

