

Technical Data Sheet



Sustason® PPSU MG black

PPSU

Typical characteristics

- Good sterilisation resistance
- High heat deflection temperature
- ISO 10993-5 tested on semi-finished product
- High impact resistance
- Chemical resistant
- High resistance to gamma and x-rays

Typical industries

- Healthcare

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,29
Water absorption	DIN EN ISO 62	%	0,6
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	77
Elongation at break	DIN EN ISO 527	%	30
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2500
Notched impact strength	DIN EN ISO 179	kJ / m ²	10
Thermal properties			
Melting temperature	ISO 11357-3	°C	-
Glass transition temperature	ISO 11357-3	°C	220
Thermal conductivity	DIN 52612-1	W / (m * K)	0,35
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	55
Service temperature, long term	Average	°C	-50 ... 180
Service temperature, short term (max.)	Average	°C	210
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	205
Electrical properties			



	Test method	Unit	Guideline value
Dielectric constant	IEC 60250		3,44
Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	10^{15}
Dielectric strength	IEC 60243	kV / mm	15

