

### Technical Data Sheet



## Sustason<sup>®</sup> PPSU MG orange

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
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,29
Water absorption	DIN EN ISO 62	%	0,6
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
<b>Mechanical properties</b>			
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 <sup>2</sup>	10
<b>Thermal properties</b>			
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 <sup>-6</sup> / 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
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		3,44

