


 Organizzazione con sistema
 di gestione della qualità
 certificato **ISO 9001**

 Organizzazione con sistema
 di gestione della sicurezza
 certificato **ISO 45001**

PSU POLISULFONE

Typical characteristics	Typical industries
High rigidity	Elettronica
Good dimensional stability	Prodotto da forno o dolciari
High continuous service temperature	Lavorazione carne, pesce e pollame
Hydrolysis resistant	Industria delle bevande
Flame retardant	Healthcare
Self-extinguishing	Industria alimentare
Low smoke development	Ingegneria meccanica e impiantistica
Good resistance against high energy radiation	Industria elettrica
High tensile strength	
High hardness	
Good machinability	
good adhesive properties	
Good weldability	
Low coefficient of thermal expansion	
Electrically insulating	
Low radiation absorption in the microwave range	
Good thermoformability	

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,24
Water absorption	DIN EN ISO 62	%	0,2
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	80
Elongation at break	DIN EN ISO 527	%	15
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2600
Notched impact strength	DIN EN ISO 179	kJ / m ²	6

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	Test method	Unit	Guideline value
Shore hardness	DIN EN ISO 868	scale D	85
Thermal properties			
Melting temperature	ISO 11357-3	°C	-
Glass transition temperature	ISO 11357-3	°C	190
Thermal conductivity	DIN 52612-1	W / (m * K)	0,26
Thermal capacity	DIN 52612	kJ / (kg * K)	1,10
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	55
Service temperature, long term	Average	°C	-50 ... 160
Service temperature, short term (max.)	Average	°C	180
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	175
Electrical properties			
Dielectric constant	IEC 60250		
Dielectric dissipation factor (50 Hz)	IEC 60250		0,001
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10 ¹⁵
Surface resistivity	DIN EN 62631-3-2	Ω	10 ¹⁴
Comparative tracking index	IEC 60112		125
Dielectric strength	IEC 60243	kV / mm	30

The short-term maximum application temperature only applies to very low mechanical stress for a few hours. The long-term maximum application temperature is based on the thermal ageing of plastics by oxidation, resulting in a decrease of the mechanical properties. This applies to an exposure to temperatures for at least 5.000 hours causing a 50% loss of the tensile strength from the original value (measured at room temperature). This value says nothing about the mechanical strength of the material at high application temperatures. In case of thick-walled parts, only the surface layer is affected by oxidation from high temperatures. With the addition of antioxidants, a better protection of the surface layer is achieved. In any case, the center area of the material remains unaffected. The minimum application temperature is basically influenced by possible stress factors like impact and/or shock under application. The values stated refer to a minimum degree of impact stress. The electrical properties as stated result from measurements on natural, dry material. With other colours (in particular black) or saturated material, there may be clear differences in the electrical properties. The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. They serve as information about our products and are presented as a guide to choose from our range of materials. This, however, does not include an assurance of specific properties or the suitability for particular application purposes that are legally binding. Since the properties also depend on the dimension of the semi-finished products and the degree of crystallization (e.g. nucleating by pigments), the actual values of the properties of a particular product may differ from the indicated values

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