

Technický datový list

Sustason[®] PPSU černý

PPSU

Vlastnosti produktu

- High heat deflection temperature
- Low smoke development
- High tensile strength
- High creep rupture strength
- Good machinability
- good adhesive properties
- Good weldability
- High continuous service temperature
- Electrically insulating
- Good dielectric properties
- High stiffness
- Good thermoformability
- Good impact strength
- Good dimensional stability

Typické oblasti použití

- Elektronika
- Stavba strojů a zařízení

	Testovací metoda	Jednotka	Orientační hodnota
Obecné vlastnosti			
Hustota	DIN EN ISO 1183-1	g / cm ³	1,29
Absorpce vody	DIN EN ISO 62	%	0,6
Hořlavost (tloušťka 3 mm / 6 mm)	UL 94		V0 / V0
Mechanické vlastnosti			
Mez kluzu	DIN EN ISO 527	MPa	77
Prodloužení při přetržení	DIN EN ISO 527	%	30
Modul pružnosti v tahu	DIN EN ISO 527	MPa	2500
Vrubová houževnatost	DIN EN ISO 179	kJ / m ²	10
Tepelné vlastnosti			
Teplota tání	ISO 11357-3	°C	-
Teplota přechodu do skelného stavu	ISO 11357-3	°C	220
Tepelná vodivost	DIN 52612-1	W / (m * K)	0,35

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	Testovací metoda	Jednotka	Orientační hodnota
Koeficient lineární teplotní roztažnosti	DIN 53752	10 ⁻⁶ / K	55
Provozní teplota dlouhodobá	Průměr	°C	-50 ... 180
Provozní teplota krátkodobá (max.)	Průměr	°C	210
Teplota tepelné deformace	DIN EN ISO 75, Verf. A, HDT	°C	205
Elektrické vlastnosti			
Relativní permitivita	IEC 60250		3,44
Objemový odpor	DIN EN 62631-3-1	Ω * cm	10 ¹⁵
Dielektrická pevnost	IEC 60243	kV / mm	15

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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