

## **Technical Data Sheet**

## Sustadur® PET GLD 120

## **Product characteristics**

- Excellent dimensional stability
- Excellent stiffness
- Excellent comportement à la glisse et à l'usure

## **Product applications**

- Mechanical engineering
- Electronics
- Conveyor technology

	Test method	Unit	Value
Propriétés générales			
Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1,41
Water absorption	DIN EN ISO 62	%	0,2
Flammability	UL 94		НВ
Propriétés mécaniques			
Limite d'élasticité	DIN EN ISO 527	MPa	77
Élongation	DIN EN ISO 527	%	4
Module d'élasticité	DIN EN ISO 527	MPa	3100
Impact strength	DIN EN ISO 179	kJ/m <sup>2</sup>	20
Notched impact strength	DIN EN ISO 179	kJ/m <sup>2</sup>	2
Shore hardness	DIN EN ISO 868	scale D	80
Propriétés thermiques			
Température de fusion	ISO 11357-3	°C	250
Thermal conductivity	DIN 52612-1	W / (m * K)	0,28
Température de service, à long terme	Average	°C	-20 115
Température de service, court terme (max.)	Average	°C	180
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	75
Propriétés électriques			
Dielectric constant	IEC 60250		3,4
Dielectric dissipation factor (50 Hz)	IEC 60250		0,001
Volume resistivity	DIN EN 62631-3-1	Ω * cm	1018
Résistivité de surface	DIN EN 62631-3-2	Ω	1016
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	20

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 an 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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