

Ficha técnica

SUSTAMID® 66

Características del producto

- Good dimensional stability
- Very good sliding properties
- High abrasion resistance

Campos de aplicación

- Mechanical engineering
- Aircraft construction
- Electrical industry

	Método de prueba	Unidad	Valor
Propiedades generales			
Densidad	DIN EN ISO 1183-1	g / cm ³	1,15
Absorción de agua	DIN EN ISO 62	%	2,8
Inflamabilidad (Espesor 3 mm / 6 mm)	UL 94		HB / V2
Propiedades mecánicas			
Límite de elasticidad	DIN EN ISO 527	MPa	85
Alargamiento de rotura	DIN EN ISO 527	%	50
Tensor de coeficiente de elasticidad	DIN EN ISO 527	MPa	3300
Notched impact strength	DIN EN ISO 179	kJ / m ²	3
Dureza Shore	DIN EN ISO 868	scale D	83
Propiedades térmicas			
Temperatura fundente	ISO 11357-3	°C	260
Conductividad térmica	DIN 52612-1	W / (m * K)	0,23
Capacidad térmica	DIN 52612	kJ / (kg * K)	1,70
Coefficiente lineal de expansión térmica	DIN 53752	10 ⁻⁶ / K	80
Temperatura de servicio o mantenimiento, largo plazo	Average	°C	-30 ... 95
Temperatura de servicio o mantenimiento, corto plazo (max.)	Average	°C	170
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	100
Propiedades eléctricas			
Constante dieléctrica	IEC 60250		3,8
Dielectric dissipation factor (50 Hz)	IEC 60250		0,015
Resistencia volumétrica	DIN EN 62631-3-1	Ω * cm	10 ¹⁵
Resistencia a la superficie	DIN EN 62631-3-2	Ω	10 ¹³
Índice comparativo de seguimiento	IEC 60112		600
Fuerza dieléctrica	IEC 60243	kV / mm	25

The following applies to Polyamides: Under the influence of moisture absorption, the mechanical properties change. The material becomes tougher and more resistant to impact, the modulus of elasticity declines. Depending on the environmental atmosphere, the temperature and the period of moisture absorption, only the surface layer is affected by alterations of property to a certain depth. On thick-walled parts, the center area remains unaffected. 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 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



Declaration concerning food contact (FDA)

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Product: Sustamid® 66 natural

We hereby declare that our semi-finished products, produced of the above-mentioned material comply with the requirements of the FDA-regulation **21 CFR, part 177, paragraph 1500** "Nylon resins" concerning their chemical composition, as well as further specific FDA regulations for incorporated additives.

The quality assurance system of Röchling Sustaplast SE & Co. KG is certified as per DIN EN ISO 9001:2015 and serves as an important basis of the constant composition and quality of Sustamid® 66 natural.

The **Food and Drug Administration (FDA)** is an agency of the United States Department of Health and Human Services, one of the United States federal executive departments.

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Note:

It is customers own responsibility to test the suitability of plastic items manufactured from or with our products for the planned application in the foodstuff industry. That includes for example:

- testing, if the physical characteristics of the plastic are suitable for the planned application,
- testing, if plastic parts manufactured by the customer fulfill the prescribed migration or extraction values,
- testing for possible influence of the plastic on the composition and/or organoleptic characteristics of foodstuffs.

This information above is based on the information provided by our suppliers. We are not liable for completeness and correctness of information contained herein. Existing laws and regulations must be respected by the receivers/users of our product in their own responsibility

This declaration is reevaluated in case of modifications of directives and laws, raw materials, formula, manufacturing procedures or other. In case of modification, new declarations are published on our website www.roechling.com, earlier declarations become invalid in that case.

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