LICHARZ

PRELIMINARY!!

Material: Linnotam AST As of 09/2025

Material Short Description

Polyamide produced by direct polymerisation in casting moulds, resulting in a semi-crystalline structure. The high degree of crystallinity leads to excellent mechanical properties.

Special additives are used to achieve a surface resistance of $10^8 - 10^{10} \Omega$ (anti-static).

Application Examples

- Pullevs
- Track Rollers
- Conveyor hoppers / conveyor systems
- Automation
- Slide rails & plates
- Guide rails

Available Colours Black (marbled)

Mechanical Properties	ISO / EN / DIN	Dry	Humid	Unit
Density Yield stress Elongation at break Tensile modulus Flexural modulus Flexural strength Impact strength ¹⁾ Notched impact strength Ball indentation hardness H358/30 Creep stress at 1% strain ²⁾ Coefficient of sliding friction against steel ³⁾	ISO 1183 ISO 527 ISO 527 ISO 527 ISO 178 ISO 178 ISO 179 ISO 179 ISO 2039-1 DIN EN ISO 899-1	1.15 70 25 2600 2800 140 no break >3.5 90 >7 0.36	 50 100 1600 1800 60 no break >15 125 0.42	g/cm³ MPa % MPa MPa MPa MPa KJ/m² MPa MPa MPa MPa MPa MPa MPa
Sliding wear against steel ³⁾	-	0.10		μm/km
Thermal Properties				
Melting temperature Thermal conductivity Specific heat capacity Coefficient of linear thermal expansion ⁴⁾	ISO 3146 DIN EN 12939 - -	+220 0.23 1.7 7-8	 	°C W/(K*m) J/(g*K) 10-5*K-1
Operating temperature range (longterm) ⁵⁾	-	-40 to +105		°C
Operating temperature range (short-term) ⁵⁾	-	+170		°C
Flammability	UL 94, IEC 60695	HB		-
Electrical Properties				
Dielectric constant ⁶⁾ Dielectric dissipation factor ⁶⁾ Volume resistivity Surface resistivity Dielectric strength Comparative tracking index	IEC 60250 IEC 60250 IEC 60093 IEC 60093 IEC 60243 IEC 60112	3.7 0.03 10 ₁₅ 10 ⁹ - 10 ¹⁰ 50 CTI 600	10 ₁₂ 10 ⁸ - 10 ⁹ 20	- - Ω *cm Ω kV/mm -
Other Data				
Water absorption in standard atmosphere until saturation	DIN EN ISO 62	2.2		%
Water absorption until saturation	DIN EN ISO 62	6.5		%

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¹⁾ Measured with pendulum impact tester 0.1 DIN 51 222

²⁾ Stress leading to 1% total elongation after 1,000h ³⁾ Against steel, hardened and ground

P = 0.05 MPa; V = 0.6 m/s; t = 60 °C near the running surface

⁴⁾ For temperature range +23 °C to +60 °C 5) Empirical value, determined on finished parts without load in heated air; dependent on type and form of thermal exposure, short-term = max. 1h, long-term = months.

6) At 10⁶ Hz

The information provided in this datasheet is intended to give an overview of the properties of the product. It reflects the current state of our knowledge and does not claim to be exhaustive. Due to the significant influence of environmental factors and further processing, the values given are to be understood as guideline values only. They do not in any way constitute a legally binding assurance regarding the properties of the product or its suitability for use in a specific application. All specified values were calculated as averages from numerous individual measurements and are based on a temperature of 23 $^{\circ}\text{C}$ and 50% relative humidity.

We recommend conducting a practical test to verify suitability for specific applications.