

## Material: LINNOTAM *GLiDE Pro T*

Stand 05/2020

### Short description of material

**LINNOTAM** with integrated solid lubricants, additives and stabilisers. Due to the mixture of these components, **LINNOTAMGLiDE Pro T** is self lubricating and has a excellent wear resistance with a low friction coefficient.

### Colours

grey, red, green

### Application examples

- Gears
- Slide bearings & -bushes
- Sliding pads
- Sliding plates and -strips
- Threaded Nuts.

### Mechanical values

	ISO / EN / DIN	Dry	Humid	
Density	ISO 1183	1,14	--	g/cm <sup>3</sup>
Yield stress	ISO 527	80	60	MPa
Elongation at break	ISO 527	40	100	%
Modulus of elasticity from tensile test	ISO 527	3100	1800	MPa
Modulus of elasticity from bending test	ISO 178	3300	2000	MPa
Flexural Strength	ISO 178	110	60	MPa
Impact strength <sup>1)</sup>	ISO 179	ohne Bruch	ohne Bruch	KJ/m <sup>2</sup>
Notched-bar Impact Strength	ISO 179	>4	>15	KJ/m <sup>2</sup>
Ball indentation hardness H358/30	ISO 2039-1	160	125	MPa
Creep rate stress at 1% Dehnung <sup>2)</sup>	DIN EN ISO 899-1	>7	--	MPa
Sliding friction coefficient against steel (dry running) <sup>3)</sup>	-	0,15	0,23	-
Sliding wear against steel (dry running) <sup>3)</sup>	-	0,03	--	µm/km

### Thermal values

Melting temperature	ISO 3146	+220	--	°C
Thermal conductivity	DIN EN 12939	0,23	--	W/(K*m)
Specific thermal capacity	-	1,7	--	J/(g*K)
Coefficient of thermal expansion (linear) <sup>4)</sup>	-	7-8	--	10 <sup>-5</sup> *K <sup>-1</sup>
Operating temperature range (long-term) <sup>5)</sup>	-	-40 bis +105	--	°C
Operating temperature range (short-term) <sup>5)</sup>	-	+160	--	°C
Fire behaviour	UL 94, IEC 60695	HB	--	-

### Electrical values

Dielectric constant <sup>6)</sup>	IEC 60250	3,7	--	-
Dielectric loss factor <sup>6)</sup>	IEC 60250	0,03	--	-
Specific volume resistance	IEC 60093	10 <sup>15</sup>	10 <sup>12</sup>	Ω *cm
Surface resistance	IEC 60093	10 <sup>13</sup>	10 <sup>12</sup>	Ω
Dielectric strength	IEC 60243	50	20	kV/mm
Creep current resistance	IEC 60112	CTI 600	--	-

### Miscellaneous data

Moisture absorption in normal climate until saturated	DIN EN ISO 62	2,2	--	%
Water absorption until saturated	DIN EN ISO 62	6,5	--	%

<sup>1)</sup> measured with a pendulum impact testing machine 0,1 DIN 51 222

<sup>2)</sup> tension resulting in 1% total elongation after 1.000h against steel, hardened and ground

<sup>3)</sup> P = 0,05 Mpa; V = 0,6m/s; t = 60 °C near running surface

<sup>4)</sup> For a temperature range of + 23 °C up to + 60 °C

<sup>5)</sup> Experience values established with finished parts that are not under any stress in heated air, depending on the type and form of heat exposure, short-term = max. 1h, long-term=months

<sup>6)</sup> at 10<sup>6</sup> Hz

The content of this datasheet are meant to give an overview of the product's properties. It reflects our current knowledge and may not be complete. The values should be taken as guide values because they are very depend on surrounding conditions and machining methods. The values are in no way a legally binding assurance of the product's properties or its suitability for use in a specific application. All stated values are average values established from many individual tests. They are based on a temperature of 23°C and 50% RH. For specific applications, we recommend determining suitability by means of a trial.

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