

Short description of material

The properties of this material are substantially comparable to those of **LiNOTAM**. Due to the additive molybdenum disulphide, a higher crystallinity is achieved.

Application examples

- Slide Bearings
- Wear strips and -plates
- Guide strips.

Colours

Black

Mechanical values

	ISO / EN / DIN	Dry	Humid	
Density	ISO 1183	1,15	--	g/cm ³
Yield stress	ISO 527	80	60	MPa
Elongation at break	ISO 527	40	100	%
Modulus of elasticity from tensile test	ISO 527	3.200	1.850	MPa
Modulus of elasticity from bending test	ISO 178	3.300	2.000	MPa
Flexural Strength	ISO 178	130	50	MPa
Impact strength ¹⁾	ISO 179	without break	without break	KJ/m ²
Notched-bar Impact Strength	ISO 179	>5	>15	KJ/m ²
Ball indentation hardness H358/30	ISO 2039-1	150	115	MPa
Creep rate stress at 1% Dehnung ²⁾	DIN EN ISO 899-1	>7	--	MPa
Sliding friction coefficient against steel (dry running) ³⁾	-	0,32	0,37	-
Sliding wear against steel (dry running) ³⁾	-	0,10	--	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) ⁴⁾	-	7-8	--	10 ⁻⁵ *K ⁻¹
Operating temperature range (long-term) ⁵⁾	-	-40 to +105	--	°C
Operating temperature range (short-term) ⁵⁾	-	+160	--	°C
Fire behaviour	UL 94, IEC 60695	HB	--	-

Electrical values

Dielectric constant ⁶⁾	IEC 60250	3,7	--	-
Dielectric loss factor ⁶⁾	IEC 60250	0,03	--	-
Specific volume resistance	IEC 60093	10 ¹⁵	10 ¹²	Ω *cm
Surface resistance	IEC 60093	10 ¹³	10 ¹²	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	--	%

¹⁾ measured with a pendulum impact testing machine 0,1 DIN 51 222

²⁾ tension resulting in 1% total elongation after 1.000h

³⁾ against steel, hardened and ground

P = 0,05 Mpa; V = 0,6m/s; t = 60 °C near running surface

⁴⁾ For a temperature range of + 23 °C up to + 60 °C

⁵⁾ 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

⁶⁾ at 10⁶ Hz

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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.