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Technical Data Sheet

NORGLIDE[®] MP2 Type 500200

FOR INFORMATION ONLY

Data Sheet updates will not be circulated.

1. **Product** : Semi-finished NORGLIDE[®] MP
2. **Composition** : Sliding bearing material consisting of a PTFE compound sintered into a flexible metal mesh backing.
3. **Components** :
 - a) PTFE compound with approximately 30% of filler content of glass fibres and graphite.
 - b) Stabilized CuSn6 mesh, material no. 2.1020 to DIN 17662, from wires of 0.25mm diameter. The mesh is linked at intersections and has a thickness after calendering of 0.4mm. The mesh count in warp and weft direction is 16 ± 1 per cm.
4. **Dimensions** : Supplied as tape in meters wound on standard cores.

Width (nominal)	: 320mm (useful \leq 310mm)
Thickness	: 0.48 ± 0.020 mm

5. Material Related Characteristics

Properties	Test Method	Unit	Value
Density (total)	DIN 53479	g/cm ³	4.10 – 4.40
Tensile Strength	DIN EN ISO 527-3	N/mm ²	≥ 45
Elongation at Break	DIN EN ISO 527-3	%	≥ 10

6. Application Related Characteristics

Maximum Admissible Specific Bearing Load	Static	N/mm ²	100
	Dynamic	N/mm ²	80
Coefficient of Friction at RT Measured on Steel with ≥ 58 HRC	at 4.8 N/mm ² and 0.058 m/s		0.17
	at 70 N/mm ² and 0.0065 m/s		0.09
k Factor		10 ⁻⁶ mm ³ /Nm	0.18
Deformation Under Load	23°C, at 100 N/mm ² , 1h	μ m	≤ 30
Rate of Heat Transfer	SG PA 3/1300/3022	W/m ² K	1200
Service Temperature Range	Permanent	°C	-200 - +260
	Intermittently		300
Coefficient of Linear Thermal Expansion	SG PA 0/1320/1025	10 ⁻⁵ K ⁻¹	12
Surface Related Volume Resistance	SG PA 1/1320/1081	Ω cm ²	$\geq 10^8$

Data are typical performance values from laboratory tests & must not be considered as a specification for product design.

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