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## Technical Data Sheet

# NORGLIDE<sup>®</sup> MP3 Type 510300

### FOR INFORMATION ONLY

Data Sheet updates will not be circulated.

1. **Product** : Semi-finished **NORGLIDE<sup>®</sup> MP**
2. **Composition** : Sliding bearing material, consisting of 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) Stainless steel mesh, material no. 1.4401 to DIN EN 10088, 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  $16 \pm 1$  per cm.
4. **Dimensions** : As tape in meters wound on reels  
 Width (nominal) : 320mm (useful  $\leq$  310mm)  
 Thickness :  $0.48 \pm 0.020$ mm

### 5. Material Related Characteristics

Properties	Test Method	Unit	Value
Density (total)	DIN 53479	g/cm <sup>3</sup>	3.75 – 4.25
Tensile Strength	DIN EN ISO 527-3	N/mm <sup>2</sup>	$\geq$ 80
Elongation at Break	DIN EN ISO 527-3	%	$\geq$ 10

### 6. Application Related Characteristics

Maximum Admissible Specific Bearing Load	Static	N/mm <sup>2</sup>	140
	Dynamic	N/mm <sup>2</sup>	110
Coefficient of Friction at RT Measured on Steel with $\geq$ 58 HRC	at 4.8 N/mm <sup>2</sup> and 0.058 m/s		0.17
	at 70 N/mm <sup>2</sup> and 0.0065 m/s		0.09
k Factor		10 <sup>-6</sup> mm <sup>3</sup> /Nm	
Deformation Under Load	23°C, at 100 N/mm <sup>2</sup> , 1h	$\mu$ m	$\leq$ 30
Rate of Heat Transfer	SG PA 3/1300/3022	W/m <sup>2</sup> K	1150
Service Temperature Range	Permanent	°C	-200 - +260
	Intermittently		300
Coefficient of Linear Thermal Expansion	SG PA 0/1320/1025	10 <sup>-5</sup> K <sup>-1</sup>	
Surface Related Volume Resistance	SG PA 1/1320/1081	$\Omega$ cm <sup>2</sup>	$\geq$ 10 <sup>8</sup>

Data are typical performance values of laboratory tests, must not be considered as specification for constructions.

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