

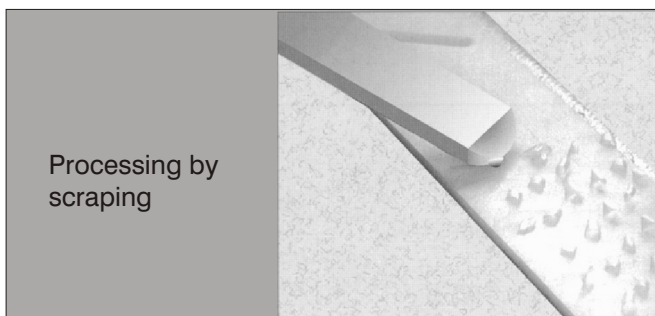
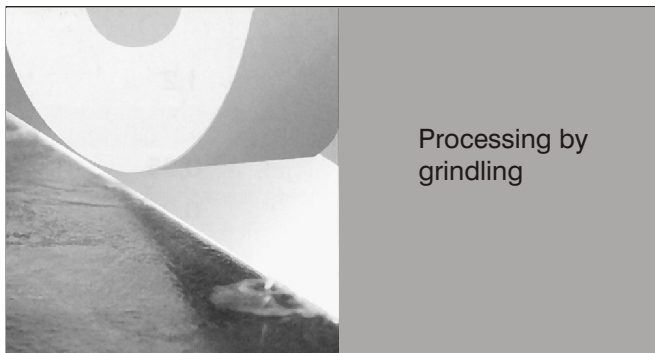
The ideal slideway lining material

In this leaflet we are happy to give you a concise description of a very special material that has been successfully used for many years for slideways, for original equipment manufacture in advanced machine building as well as for basic overhaul and repairs. It is available in a great variety of shapes and may be used not only in straight but also cylindrical and flat circular form.

SUPERPLAST is a two-layer plastic material. Permanently thermo-incrusted in an acetate-resin plate (POM) is a NOMEX synthetic-fiber fabric that ensures optimum bonding.

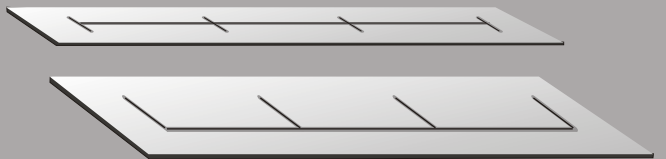
Benefits and features

- Outstanding quality at a reasonable price.
- Very low friction coefficient, even in highly unfavorable operating conditions.
- No stick-slip effect, even at extremely slow positioning speeds.
- Outstanding emergency running properties no seizing of slideways.
- Minimal wear and tear, both of the SUPERPLAST lining and the back rest, even if the latter is unhardened.

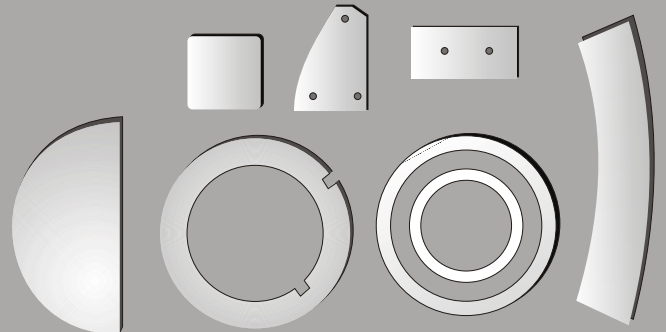


Processing examples of SUPERPLAST:

With lubrication grooves



To customers' specifications



Additional benefits

- Good guideway absorption properties.
- Tremendous **loadability** (over 800 kgf/cm² static load) - absolutely no cold-flow phenomenon.
- Simple, **low-cost fitting** due to bonding. For the purpose, we recommend the SUPER-PLUS-PU two-component adhesive. Simplification or even elimination of lubrication system depending on operational conditions which may translate into a sizable reduction of machine or system cost.
- **Processing** by scraping, grinding or high-speed milling. Standard-dimension plates can be cut to size with band or circular saws.
- Guaranteed consistent **quality** of the materials used according to ISO 9002.
- **Rapid delivery** for standard-size plates with thicknesses of 1.5 to 6 mm, or cut to order (straight plates, rings or segments) with or without lubrication grooves as per DIN standard.

The ideal slideway lining material

- Uses:** The perfect lining for all kinds of slideways, be they straight, cylindrical or circular.
- Composition:** Two-layer material consisting of an acetate-resin plate (POM of different thickness starting with 1.5 mm; permanently bonded to a NOMEX fabric by thermo-incrustation.

- Standard sizes:**
- 1.5 mm = approx. 2000 x 490 mm
 - 2.0 mm = approx. 2000 x 490 mm
 - 3.0 mm = approx. 2000 x 460 mm
 - 4.0 mm = approx. 2000 x 440 mm
 - 5.0 mm = approx. 2000 x 430 mm
 - 6.0 mm = approx. 2000 x 300 mm

Specifications

Density	DIN 53479	g/cm ³	1.425
Modulus of elasticity	DIN 5342	kp/cm ²	1100
Impact resistance	DIN 53453	kp/cm ²	80
Impact strength	DIN 53453	kp/cm ²	7
Compressive strength	DIN 53454 (cube side length10)	kp/cm ²	1150
Tensile strength	DIN 53455 (test specimen shape 1)	kp/cm ²	700
Modulus of elasticity	Bend test	kp/cm ²	32000
Ball penetration hardness	DIN 53456	kp/cm ²	1400
Heat deflection temperature (Vikat)	VDE 0302 (air)	° C	160
Thermal conductivity	VDE 0304	Kcal/mh °C	0.198
Thermal coefficient of expansion	20° C - 100° C	10 ⁻⁴ x k ⁻¹	1.2
Flammability	yes		
Water absorption	after 24 h in water	%	0.25
Water absorption at	at max. 65 % relativ humidity of air	%	0.2
Max. change of total thickness	due to water absorpcion	%	0.1
Coefficient of sliding friction	depending on stright-line velocity, load and lubrication	f	0.05 - 0.15
Deterioration factor	10 ⁻¹³ m ² N ⁻¹	K	0.089

Quality certified as per EN ISO 9002

The above values are approximate only.
Subject to change without notice.