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MRP – maintenance free bearing material impregnated with resin

1. Structure

Hardened resin with fibers and evenly distributed PTFE and other constant lubricants

2. Characteristics

- designed for high loads,
- low coefficient of friction,
- shock absorber,
- low water absorption,
- short run-off time after assembly,
- excellent wear resistance in all work conditions,
- excellent replacement for SKF's PWM sliding bearings
- also available as semi-product.

3. Applications

- water turbines, conveyors, worm-gears, brewing industry, chemic and food industry, paper and textile industry, earthworks machinery, shipyard industry, pumps, sealings, filtration installations, desalination and water treatment installations, etc.

4. Availability

- ex stock: plates, bushes (inner diameter up from Ø10mm) in standard dimensions,
- to order: non-standard elements.

5. Technical data

Parameter		Unit	Value
Maximum load	static	MPa	207
Coefficient of friction	dry	-	0,075 – 0,21
Maximum sliding speed	dry	m/s	0,05
Water absorption	after 2 h	%	0,12
	after 24h		0,16
Coefficient of thermal expansion	radial	10^{-6}/°C	50-60
	tangential		90-100
Working temperature	maximum (constant)	°C	163
Surface finish Ra	shaft	µm	<0,2
	housing		1,8 – 3,2
Fitting	shaft	-	h7-H8
	housing		H7-H8
Shaft hardness		HB	200

6. Working conditions

dry	good
oil lubricated	very good
grease lubricated	good
water lubricated	very good
process fluid lubricated	good

7. Assembly tips

The housing should have a fit-in phase machined.
The bushes should be assembled with constant pressure without bush torsion. For assembly use m5 shaft.
Additional machining after assembly possible.