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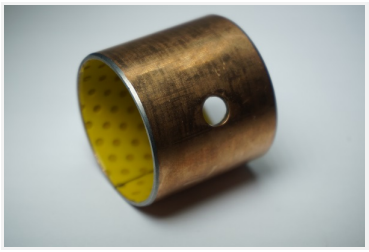
Datasheet TEMX



TEMX is a wound composite bearing with POM coating. It is lined with copper-plated steel and porous bronze sintered POM polymer. It is a maintenance-free dry sliding bearing in accordance with ISO 3547. The TEMX bearing can be made cylindrical or flanged. It is also possible to order pressure plates, strips or other shapes on request. The TEMX bearing has good sliding and wear behaviour and is capable of withstanding high loads. The bearing is a very economical solution for many applications. The TEMX bearing has a sliding layer and does not require lubrication, although this is possible.

Application

Material

Steel with tin or copper plating inside POM

Availablity

	Value	Unit
Inside diameter	8-300	mm
Outside diameter	10-305	mm
Flange diameter	15-73	mm
Flange height	2,5	mm
Total length	8-120	mm

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TEMX - Specifications

Physical properties

	Test standard	Value	Unit
Density	ASTM D792	7,00	g/cm³
Max. swell in water at 20 °C	ASTM D570	0,00	%

Mechanical properties

	Test standard	Value	Unit
Compressive strength static	ASTM D695	250	MPa
Module of elasticity - Youngs modulus		on request	
Tensile strength		on request	
Shear strength		on request	
Impact strength		on request	
Hardness		on request	
Dynamic load capacity		70	MPa

Thermal properties

	Test standard	Value	Unit
Thermal expansion Parallel to laminate	ASTM D696	12,0	10^-5°C
Thermal expansion Normal to laminate	ASTM D696	12,0	10^-5°C
Min. working temperature		-40	°C
Max. working temperature		130	°C
Intermittent working temperature		140	°C

Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic	pin-on-ring/dry against steel	0,05-0,20	[-]
Max. sliding speed		2,5	m/s
Max. Pv-load dry	pin-on-ring	2,80	MPa*m/s
Max. Pv-load oil lubricated	pin-on-ring	22,00	MPa*m/s
Max. Pv-load on regular greased		on request	

Electrical properties

	Test standard	Value	Unit