

## Datasheet AS TEMX



AS TEMX is a wrapped composite sliding bearing with POM coating. It is backed with copper plated steel and porous bronze sintered POM polymer. It is a maintenance free dry sliding bearing according ISO 3547. The TEMX bearing can be made cylindrical or with flange. It is also possible to order thrust washers, strips or other shapes on request. The TEMX bearing has good sliding and wear behavior and is able to operate under high load. The bearing is a very economical solution for many applications. The TEMX bearing has a sliding layer and does not have to be lubricated, but it is possible.

AS TEMX is available from 8 mm up to 300 mm shaft diameter. Bigger sizes available on request.

AS TEMX is used a material for bearings in for example automotive chassis, forging machines, mine carrying machines, metal melting and casting machines and in water irrigating systems.

- (1): Hardness rockwell: HRM.
- (2): Hardness rockwell: HRC.
- (3): Coefficient of friction dynamic: oil/grease.

Material	
Material	Steel

Availability	Unit	Value
Min. inside diameter	mm	8
Max. outside diameter	mm	305
Length standard	mm	120 (longer on request)

Physical Properties	Test Standard	Unit	Value
Density	ASTM D792	g/cm <sup>3</sup>	-
Max. swell in water at 20 °C	ASTM D570	%	-

Mechanical Properties	Test Standard	Unit	Value
Compressive strength static	ASTM D695	MPa	250
Compressive strength dynamic	ASTM D695	MPa	70
Module of elasticity	ASTM D695	MPa	-
Tensile strength	ASTM D3410	MPa	-
Shear strength	ASTM D3410	MPa	-
Impact strength	ASTM D256	kJ/m <sup>2</sup>	-
Hardness rockwell	ASTM D785	HRM/HRC	-

Thermal Properties	Test Standard	Unit	Value
Thermal expansion	ASTM D696	*10 <sup>-5</sup> / °C	-
Min. working temperature		°C	-
Max. working temperature		°C	-
Intermittent working temperature		°C	-

Friction Properties	Test Standard	Unit	Value
Coefficient of friction dynamic	Pin-on-ring	Dry against steel	-
Max. sliding speed	Pin-on-ring	m/s	-
Max. pv load dry	Pin-on-ring	MPa*m/s	-
Max. pv load oil lubricated	Pin-on-ring	MPa*m/s	-
Max. pv load regular greased	Pin-on-ring	MPa*m/s	-
Wear factor	Pin-on-ring	*10 <sup>-9</sup> m <sup>2</sup> /N	-