

Datasheet AS TEMU



AS TEMU is a wrapped composite sliding bearing with PTFE coating. It is a maintenance free dry sliding bearing according ISO 3547 (also available lead free). The TEMU bearing can be made cylindrical or with flange. It is also possible to order thrust washers, strips or other shapes on request. The TEMU 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 TEMU bearing has a sliding layer and does not have to be lubricated, but it is possible.

AS TEMU is available from 2 mm up to 300 mm shaft diameter. Bigger sizes available on request.

AS TEMU is used a material for bearings in for example printing, weaving and production machines, gymnastic equipment and rock absorbers.

- (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 ³	-
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	60
Module of elasticity	ASTM D695	MPa	-
Tensile strength	ASTM D3410	MPa	-
Shear strength	ASTM D3410	MPa	-
Impact strength	ASTM D256	kJ/m ²	-
Hardness rockwell	ASTM D785	HRM/HRC	-

Thermal Properties	Test Standard	Unit	Value
Thermal expansion	ASTM D696	*10 ⁻⁵ / °C	-
Min. working temperature		°C	-200
Max. working temperature		°C	280
Intermittent working temperature		°C	280

Friction Properties	Test Standard	Unit	Value
Coefficient of friction dynamic	Pin-on-ring	Dry against steel	0.02-0.2 ⁽³⁾
Max. sliding speed	Pin-on-ring	m/s	5
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 ⁻⁹ m ² /N	-