ASEC



SLIDING BEARINGS ASRS20(F)

SKU: ASRS20(F)

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Categories: Composite bearings

Features

- Low frictional coefficient.
- Low stick-slip.
- High load, shock and wear resistant.
- Low water absorption.
- Dry running.
- Suitable for use in dry, wet and lubricated conditions.

Application
High load sliding bearings, sliding pads, wear rings, hinges, hydraulic cylinders, material handling, agricultural equipment, mediate friction

Material
Synthetic fiber with polyester resin with friction modifiers.

ASRS20 bearing materials are reinforced woven polymers specially developed for high loads and smooth running. The material contains an ideal concentration of graphite that provides excellent performance in conditions where reduced friction and wear are required. ASRS20 has good wear resistance and is suitable for use in dry, wet and lubricated conditions. ASRS20 has a low coefficient of friction, is resistant to edge loading and does not rapidly swell in water.

The information in this datasheet is provided for general purposes only and not meant to be a specific recommendation for any individual application. All values were determined under laboratory conditions. ASEC Products is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet.
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Availablity		Value	Unit
Min. inside diameter		20	mm
Max. outside diameter		2500	mm
Length standard		500	mm
Sheet size		500x500	mm
Sheet thickness		2.5-200	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density	ASTM D792	1,24	g/cm³
Max. swell in water at 20 °C	ASTM D570	0.1	%
Mechanical properties	**Test standard**	**Value**	**Unit**
Comp. strength static	ASTM D695	330	MPa
Tensile strength	ASTM D3410	45	MPa
Shear strength	ASTM D3410	80	Mpa
Impact strength	ASTM D256	50	kJ/m2
Hardness	ASTM D785	98	HRM Rockwell
Dynamic load capacity		80	MPa
Charpy notched impact strength +23°C		50	kJ/m²
Thermal properties	**Test standard**	**Value**	**Unit**
Thermal expansion	ASTM D696	7.0	10^-5°C
Thermal expansion ‖to =	ASTM D696	6.0	10^-5°C
Min. working temperature		-40	°C
Max. working temperature		120	°C
Inter. working temperature		140	°C
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction dynamic	Oil lubrication	0,12	[-]
Coefficient of friction dynamic	Dry	0.20-0.30	[-]
Max. pv load dry	Pin-on-ring	0.25	MPa*m/s
Max. pv load oil lubricated	Pin-on-ring	0.40	MPa*m/s
Max. pv load regular greased	Pin-on-ring	0.50	MPa*m/s

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