ASEC



SLIDING BEARINGS ASRS60(F)

SKU: ASRS60(F)

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Categories: Composite bearings

Features

- Bearing material with high E-module.
- Resistant against extreme loads.
- Resistance against creep.
- Resistant to edge loading.
- Resistance against creep.
- Needs hard counter face.

Application
Applied in offshore, steel structures, machines, cranes, hydraulic cylinders and other equipment.

Material
Synthetic fiber with polyester resin with friction modifiers.

ASRS60 bearing material is reinforced woven polymer material specially developed for very high loads and has exceptionally high mechanical properties. The material is very tough and resistant to high radial and axial surface pressure. ASRS60 has good wear resistance and is suitable for use in dry, wet and lubricated conditions. ASRS60 has a medium coefficient of friction, is resistant to edge loading and hardly swells in water. ASEC Kunststoffen B.V. recommends that the counter sides are provided with a hardened surface to protect them against wear.

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Availablity		Value	Unit
Min. inside diameter		20	mm
Max. outside diameter		2000	mm
Length standard		500	mm
Sheet size		On request	mm
Sheet thickness		On request	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1.91	g/cm³
Max. swell in water at 20 °C	ASTM D570	0.30	%
Mechanical properties	**Test standard**	**Value**	**Unit**
Comp. strength static	ASTM D695	600	MPa
Module of elasticity	ASTM D695	20000	MPa
Tensile strength	ASTM D3410	60	MPa
Shear strength	ASTM D3410	80	Mpa
Impact strength	ASTM D256	50	kJ/m2
Hardness	ASTM D785	98	Rockwell HRM
Dynamic load capacity		100	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-40	°C
Max. working temperature		205	°C
Inter. working temperature		280	°C
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction dynamic	Pin-on-ring	0.30	[-]
Max. sliding speed	Pin-on-ring	2.0	m/s
Max. pv load dry		0.25	MPa*m/s
Max. pv load oil lubricated		0.50	MPa*m/s
Max. pv load regular greased		0.50	MPa*m/s

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