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Datasheet AS RS50



AS RS50 bearing materials is reinforced weave polymer material special developed for equal friction coefficient at low and high loads. The material contains an ideal concentration of thermoplastic which gives the very good result in areas were reduced friction and wear is required. AS RS50 is also provided with thermoplastic elements for further reduction of friction. AS RS50 has good wear resistance and is suitable for operating under dry, wet and lubricated circumstances. AS RS50 has a very low coefficient of friction, can withstand edge loading and has virtually no swell in water.

AS RS50 is produced under approval of ISO 9001 for all manufacturing operations and tested in laboratories.

AS RS50 is available from 16 mm inside diameter tube up to 2000 mm outside diameter. Also bigger sizes are available. It can made of sheet from 2.5 mm up to 200 mm thickness.

AS RS50 is applied in offshore, dredging, marine, deck equipment, machines, bridges, sluices, hydraulic cylinders and other equipment.

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

Material	
Material	Composite

Availability	Unit	Value
Min. inside diameter	mm	16
Max. outside diameter	mm	2000 (bigger diameter possible made of arced segments)
Length standard	mm	500 (longer on request)

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 Kunststoffen B.V. is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet. ASEC Kunststoffen B.V. 2016 ©.



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Physical Properties	Test Standard	Unit	Value
Density	ASTM D792	g/cm ³	1.11
Max. swell in water at 20 °C	ASTM D570	%	0.1

Mechanical Properties	Test Standard	Unit	Value	
Compressive strength static	ASTM D695	MPa	330	
Compressive strength dynamic	ASTM D695	MPa	85	
Module of elasticity	ASTM D695	MPa	2000	
Tensile strength	ASTM D3410	MPa	60	
Shear strength	ASTM D3410	MPa	80	
Impact strength	ASTM D256	kJ/m²	50	
Hardness rockwell	ASTM D785	HRM/HRC	98 ⁽¹⁾	

Thermal Properties	Test Standard	Unit	Value
Thermal expansion	ASTM D696	*10^-5/°C	7
Min. working temperature		°C	-40
Max. working temperature		°C	80
Intermittent working temperature		°C	90

Friction Properties	Test Standard	Unit	Value
Coefficient of friction dynamic	Pin-on-ring	Dry against steel	0.07
Max. sliding speed	Pin-on-ring	m/s	2
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	-

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Datasheet AS RS50 Version 1.0 Page 2 of 2