ASEC Products
Marketing 17
6921 RE Duiven
The Netherlands
T. +31 316 84 44 01
info@asecproducts.com
www.asecproducts.com

Datasheet ASRS20



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.

Application

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

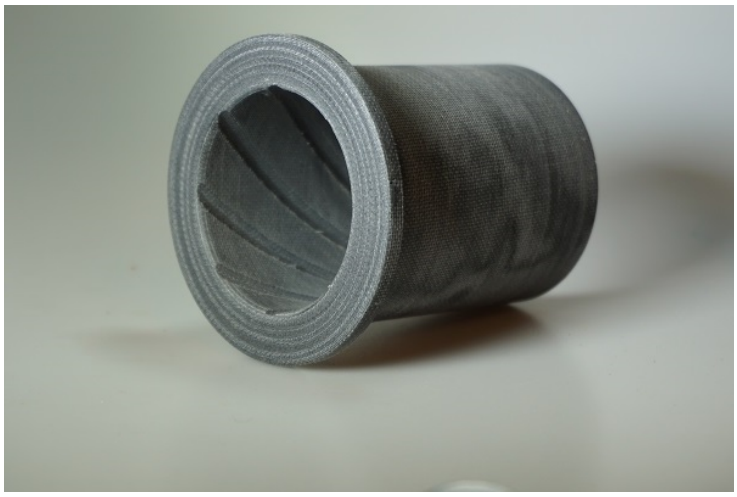
Material

Synthetic fiber with polyester resin with friction modifiers.

Availablity

	Value	Unit
Tube inside diameter	20	mm
Tube outside diameter	2500	mm
Length standard	500	mm
Sheet thickness	2,5-200	mm
Sheet size	600x600	mm
Inside diameter	on request	
Outside diameter	on request	
Flange diameter	on request	
Flange height	on request	
Total length	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 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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ASRS20 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ASTM D792	1,24	g/cm³
Max. swell in water at 20 °C		0,10	%

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		330	MPa
Module of elasticity - Youngs modulus		on request	
Tensile strength		45	MPa
Shear strength		80	MPa
Impact strength		on request	
Hardness		98	HRM
Dynamic load capacity		on request	
Charpy notched impact strength +23°C		50	kJ/m²

Thermal properties

	Test standard	Value	Unit
Thermal expansion Parallel to laminate		6,0	[-]
Thermal expansion Normal to laminate		7,0	[-]
Min. working temperature		-40	°C
Max. working temperature		120	°C
Intermittent 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	[-]

Electrical properties

	Test standard	Value	Unit

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