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Datasheet ASN901



The ASN901 material is suitable for use in high load bushing and bearing applications. The material offers market-leading frictional properties for composite materials. ASN901 is a high-load composite bearing material made from specially manufactured synthetic fabric reinforcement using a composite construction process impregnated with thermosetting resins. Solid lubricant fillers are added, making them suitable for dry-running applications. The product has a dark grey colour.

Application

Material

Aramide fiber with polyester resin with friction modifiers.

Availablity

	Value	Unit
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	500	mm
Sheet thickness	on request	
Sheet size	on request	
Inside diameter	on request	
Outside diameter	on request	
Flange diameter	on request	
Flange height	on request	
Total length	on request	





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ASN901 - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,30	g/cm³

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		530	MPa
Module of elasticity - Youngs modulus		on request	
Tensile strength		70	MPa
Shear strength		on request	
Impact strength		>20	IZOD
Hardness		on request	
Dynamic load capacity		90	MPa
Elongation at break		< 4	%

Thermal properties

	Test standard	Value	Unit
Thermal expansion Parallel to laminate		3,0	10^-5°C
Thermal expansion Normal to laminate	ASTM D696	5,0	10^-5°C
Min. working temperature		on request	
Max. working temperature		190	°C
Intermittent working temperature		on request	

Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic		0,15-0,20	[-]
Max. sliding speed		on request	
Max. Pv-load dry		on request	
Max. Pv-load oil lubricated		on request	
Max. Pv-load on regular greased		on request	

Electrical properties

	Test standard	Value	Unit

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