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Datasheet ASRS80



ASRS80 bearing material is reinforced filament woven polymer material specially developed for extreme loads and has excellent high mechanical properties, even at high temperatures. It is the most robust synthetic bearing material available on the world market. The material is extremely tough and can withstand high radial and axial surface pressure. ASRS80 has good wear resistance and is suitable for use in dry, wet and lubricated conditions. ASRS80 has a medium coefficient of friction, is resistant to edge loading and hardly swells in water. ASEC Kunststoffen B.V. recommends providing the counter sides with a hardened surface to protect them against wear.

Application

Material

Synthetic fiber with polyimide resin with anti friction liner.

Availablity

	Value	Unit
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	on request	
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	

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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ASRS80 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 62-1	1,95	g/cm³
Water absorption at 23 °C	ISO 62-1	25	mg
Flammability	IEC 60695-11-10	V-0	[-]

Mechanical properties

	Test standard	Value	Unit
Compressive strength static	ISO 604	650	MPa
Module of elasticity - Youngs modulus	ISO 178	25000	MPa
Tensile strength	ISO 527	300	MPa
Shear strength		on request	
Impact strength		on request	
Hardness		on request	
Dynamic load capacity		on request	
Izod impact strength, parallel with layers	ISO 180/2A	55	KJ/m²
Shear strength parallel	ISO 60893-2	55	Mpa

Thermal properties

	Test standard	Value	Unit
Thermal expansion Parallel to laminate		on request	
Thermal expansion Normal to laminate		on request	
Min. working temperature		on request	
Max. working temperature		on request	
Intermittent working temperature		on request	
Thermal endurance 20,000 h (T.I)	IEC 60216	200	°C

Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic		on request	
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
Resistance to tracking (CTI)	IEC 60112	250	CTI
Permittivity 50Hz	IEC 60250	4	[-]
Permittivity 1MHz	IEC 60250	0	[-]
Dissipation factor 50Hz	IEC 60250	0,01	[-]

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Electrical properties

Dissipation factor 1 MHz	IEC 60250	0	[-]
Insulation resistance after submersion in water	IEC 60167	500000	MΩ

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