ASEC



SLIDING BEARINGS ASRS80(F)

SKU: ASRS80(F)

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Categories: Composite bearings

Features

- Bearing material with extreme high E-module.
- Best performance at high temperature.
- Resistance against creep.
- Medium coefficient of friction.
- Resistant to edge loading.
- Needs hard counter face.

Material
Synthetic fiber with polyimide resin with anti friction liner.

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.

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Availablity		Value	Unit
Min. inside diameter		On request	mm
Max. outside diameter		On request	mm
Length standard		On request	mm
Sheet size		On request	mm
Sheet thickness		On request	mm
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**
Comp. strength static	ISO 604	650	MPa
Module of elasticity	ISO 178	25000	MPa
Tensile strength	ISO 527	300	MPa
Shear strength		90	MPa
Shear strength parallel	ISO 60893-2	55	Mpa
Dynamic load capacity		100	MPa
Izod impact strength, parallel with layers	ISO 180/2A	55	KJ/m²
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-40	°C
Max. working temperature		200	°C
Thermal endurance 20,000 h (T.I)	IEC 60216	200	°C
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction dynamic		0.20	[-]
Max. pv load dry		0.3	MPa*m/s
Max. pv load oil lubricated		0.50	MPa*m/s
Max. pv load regular greased		0.50	MPa*m/s
Electrical properties			
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	[-]
Dissipation factor 1 MHz	IEC 60250	0	[-]
Insulation resistance after submersion in water	IEC 60167	500000	MΩ

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