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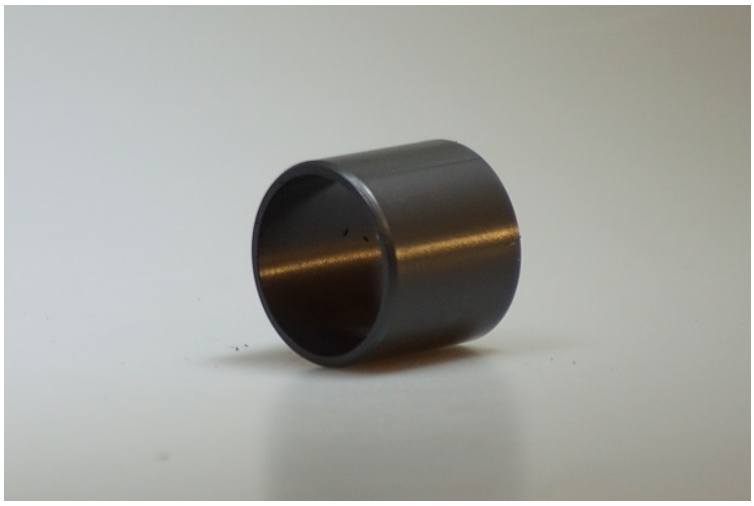

SLIDING BEARINGS ASTPE(F)

SKU: ASTPE(F)

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Categories: Plastic bearings

Features

- Continuous use temperature: -40 ℃ ~ + 80 ℃.
- Universal strong for use in low-load situations most.
- Suitable for dry running, maintenance-free, corrosion-resistant.
- Minimize the damage to the shaft.
- Very low coefficient of sliding friction.

Material

Plastic

ASTPE series of high-performance engineering plastic polymer bearings as the base material, through modification of polymer materials technology into high-strength fibers and specialty solid improvement in its internal grease integrated wear resistance; high strength fiber reinforced network structure strength of the material, the composite solid special grease allows EP series plastic bearings with excellent self-lubricating properties and wear resistance. Whether it is a high durability requirements the automotive industry.

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Availablity		Value	Unit
Min. inside diameter		3	mm
Max. outside diameter		90	mm
Flange diameter		7.5-110	mm
Length standard		3-60	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1.46	g/cm³
Thermal conductivity	ASTM C 177	0.2	W/m*K
Water absorption at 23 °C	DIN 53495	0.2	%
Mechanical properties	**Test standard**	**Value**	**Unit**
Comp. Strength		65	MPa
Module of elasticity	DIN 53457	2.3	MPa
Tensile strength	DIN 53452	80	MPa
Hardness	DIN 53505	70	Shore D
Thermal properties	**Test standard**	**Value**	**Unit**
Thermal expansion, 23°C	DIN 53752	12	K
Min. working temperature		-40	°C
Max. working temperature		80	°C
Inter. working temperature		120	°C
Friction properties	**Test standard**	**Value**	**Unit**
Dynamic friction / steel		0.05-0.15	[-]
Max. PV dry		0.4	MPa*m/s
Electrical properties	**Test standard**	**Value**	**Unit**
Volume resistivity	DIN IEC 93	＞10^12	Ωcm
Surface resistivity	DIN 53482	＞10^15	Ω

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