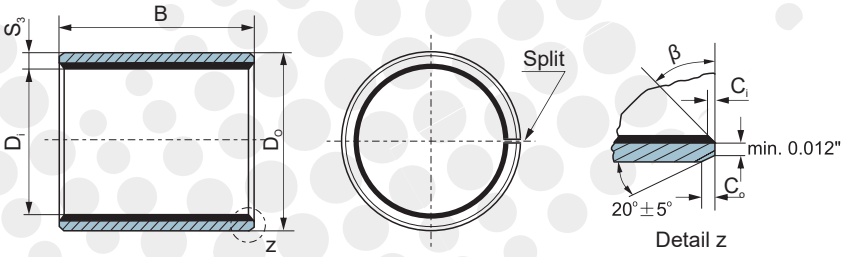
TU- POM



ID and OD chamfers

S_3	C_O	C_i	β
0.0315	0.008-0.030	0.002-0.018	30° ±5°
0.0472	0.012-0.035	0.006-0.022	30° ±5°
0.0630	0.015-0.040	0.008-0.032	30° ±5°

S_3	C_O	C_i	β
0.0787	0.030-0.060	0.008-0.032	30° ±5°
0.0945	0.050-0.095	0.020-0.043	45° ±5°

Unit:mm

STRUCTURE

Sliding Layer POM With or Without Lubricant Indents

Porous Bronze Sinter

Steel Backing

Operating Performance	
Dry	Poor
Oil lubricated	Good
Grease lubricated	Very Good
Water lubricated	Poor
Process fluid lubricated	Poor

Structure of the material:

Layer	Average analyses of the material	Thickness of layer
Sliding layer (Minimum)	POM-C	250 - 450 µm
Intermediate layer (Average Peak)	CuSn11 Sintered	200 - 350 µm
Supporting shell	Low Carbon Steel	0,50 ÷ 2,70 mm (Depending on Dim. of the Bearing)
Protective layer	Sn or Zn	2 - 8 µm

TECHNICAL DATA

Max. load	Static	140N/mm²
	Very low speed	70 N/mm²
	Rotating oscillating	60N/mm²
Max. PV dry running	Short-term operation	3.6N/mm²*m/s
	Continuous operation	2.8 N/mm²*m/s
PV max. hydrodynamic		30N/mm²*m/s

Temp. limit		-30°c to +130°c
Max. speed	Dry running	2.5 m/s
	Hydrodynamic operation	>2.5 m/s
Thermal conductivity		42 W(m*K)$^{-1}$
Coefficient of thermal expansion		11*10^{-6}*K^{-1}
Friction coefficient	Dry	0.06~0.12
	Hydrodynamic	0.03~0.08

CHARACTERISTICS

- Marginally lubricated bearing material for grease or oil lubricated applications
- Standard parts contain grease indents in the sliding layer; plain sliding layer available by request
- Optimum performance under relatively high loads and low speeds
- Suitable for linear, oscillating and rotating movements
- Wide range of parts available from stock

AVAILABILITY

Bearing forms available in standard dimensions

- Cylindrical bushes
- Thrust washers
- Sliding plates

Bearing forms made to order: Standard forms in special dimensions, half-bearings, special shapes obtained by stamping, bearings with locating notches, lubricant holes and machined grooves, customized bearing designs

APPLICATIONS

Automotive Mechanical handling and lifting equipment, machine slides, hydraulic cylinders, hydraulic motors, ski-lifts, pneumatic equipment, medical equipment, textile machinery, agricultural equipment, scientific equipment, etc.

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