EP72™

Characteristics

- Colour: dark grey
- Alternative to conventional compression moulded or machined polyimide
- Highest-performance dry injection moulded bearing material
- Good lubricated performance in transmissions
- Manufactured by precision injection moulding

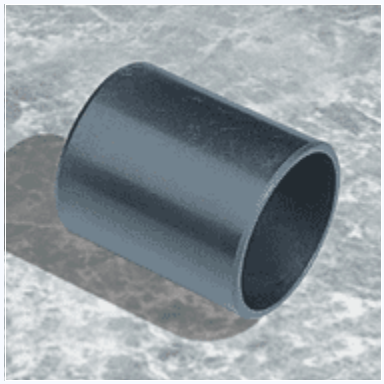
Applications

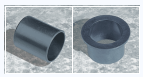
Automotive
- Solenoids
- electric motors
- transmissions
- clutches
- pumps

Industrial
- Electric motors
- valves
- clutches

Other
- Aerospace

EP72™





Composition & Structure

Internally lubricated PAI

Operating Conditions

dry	good
oiled	good
greased	good
water	fair
process fluid	fair

Availability

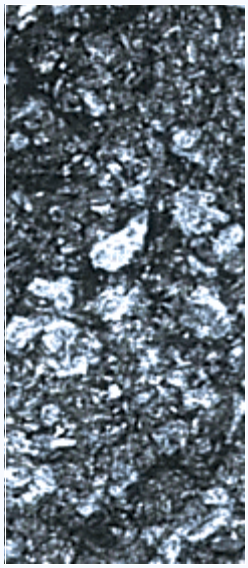
Ex Stock
- N/A

To order
- Cylindrical and flanged bushes
- Special dimensions and shapes

Bearing Properties

Bearing Properties	Unit	Value
Dry		
Maximum sliding speed U	m/s	2.5
Maximum PU factor	N/mm² * m/s = W/mm²	4.0
Coefficient of friction f	–	0.12-0.15
Oil lubrication		
Maximum sliding speed U	m/s	15.0
Maximum PU factor	N/mm² * m/s = W/mm²	4.0
Coefficient of friction f	–	0.12-0.15
General		
Maximum temperature T_{max}	°C	+260
Minimum temperature T_{min}	°C	-200
Maximum load P static	N/mm²	60
Maximum load P dynamic	N/mm²	40
Shaft surface finish Ra	µm	0.2-0.8
Shaft hardness	HB	>200
Shaft hardness for longer service life	HB	>350

Microsection



Injection moulded thermoplastic lubricated bearing material with additives homogeneously mixed in