EP64™
Bearing Material

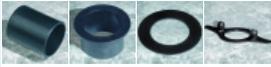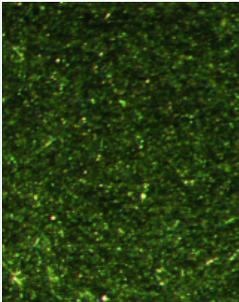## EP64™ Bearing Material

Characteristics

- Injection moulded reinforced polyetheretherketone based and modified bearing material
- High temperature material with low thermal expansion for demanding components
- Good chemical and hydrolysis resistance
- Excellent in lubricated applications
- High viscosity and mechanical strength
- High wear resistance in oscillating movements
- Colour: black

Applications

General
Generally applicable within the limits of the material properties

Industrial
Domestic appliances, transportation equipment, apparatus engineering, conveyor equipment and many more

Composition & Structure

Injection moulded thermoplastic dry bearing material
PEEK + PTFE + Graphite + Carbon fibres

Operating Conditions

dry	good
oiled	very good
greased	very good
water	good
process fluid	good after resistance testing

Availability

Ex Stock
- N/A

To order
- Bushes, special dimensions and shapes

Microsection

Injection moulded thermoplastic dry bearing material with additives homogeneously mixed in

Bearing Properties

Bearing Properties	Unit	Value
Dry		
Maximum sliding speed v	m/s	1.0
Maximum pv factor The pv Limit is depending on the heat dissipating surface to contact area ratio 1) $A_H/A_C = 5$ 2) $A_H/A_C = 10$ 3) $A_H/A_C = 20$	MPa x m/s	1) 0.09 2) 0.35 3) 1.40
Coefficient of friction f	–	0.3 - 0.5
Grease lubrication		
Maximum sliding speed v	m/s	-
Maximum pv factor	MPa x m/s	-
Coefficient of friction f	–	-
General		
Maximum temperature T_{max}	°C	+290
Minimum temperature T_{min}	°C	-100
Maximum load p static	MPa	125
Shaft surface finish R_a	µm	0.3±0.2
Shaft hardness	HV	>450