

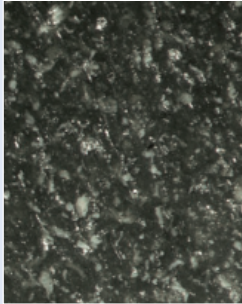


EP63™ Bearing Material	Characteristics	Applications
 	<ul style="list-style-type: none"> • Injection moulded reinforced polyetheretherketone based and modified bearing material • High temperature material with low thermal expansion for demanding components • Optimised for dry running conditions • High viscosity and mechanical strength • High wear resistance in oscillating movements • Good chemical and hydrolysis resistance • Colour: black 	<p>General Generally applicable within the limits of the material properties</p> <p>Industrial Domestic appliances, valve technology, electronics assembly, agricultural machinery and many more</p>

Composition & Structure	Operating Conditions	Availability										
<p>Injection moulded thermoplastic dry bearing material PEEK + PTFE + Aramid</p>	<table border="1"> <tr> <td>dry</td> <td>good</td> </tr> <tr> <td>oiled</td> <td>good</td> </tr> <tr> <td>greased</td> <td>good</td> </tr> <tr> <td>water</td> <td>fair</td> </tr> <tr> <td>process fluid</td> <td>good after resistance testing</td> </tr> </table>	dry	good	oiled	good	greased	good	water	fair	process fluid	good after resistance testing	<p>Ex Stock</p> <ul style="list-style-type: none"> • Cylindrical bushes and flanged bushes <p>To order</p> <ul style="list-style-type: none"> • Non-standard parts
dry	good											
oiled	good											
greased	good											
water	fair											
process fluid	good after resistance testing											

Microsection	Bearing Properties	Unit	Value
 <p>Injection moulded thermoplastic dry bearing material with additives homogeneously mixed in</p>	<p>Dry</p> <p>Maximum sliding speed v</p> <p>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) $A_H/A_C = 20$</p> <p>Coefficient of friction f</p> <p>Grease lubrication</p> <p>Maximum sliding speed v</p> <p>Maximum pv factor</p> <p>Coefficient of friction f</p> <p>General</p> <p>Maximum temperature T_{max}</p> <p>Minimum temperature T_{min}</p> <p>Maximum load p static</p> <p>Shaft surface finish R_a</p> <p>Shaft hardness</p>	<p>m/s</p> <p>MPa x m/s</p> <p>–</p> <p>m/s</p> <p>MPa x m/s</p> <p>–</p> <p>°C</p> <p>°C</p> <p>MPa</p> <p>µm</p> <p>HV</p>	<p>1.0</p> <p>1) 0.16 2) 0.66 3) 2.63</p> <p>0.12 - 0.21</p> <p>-</p> <p>-</p> <p>-</p> <p>+290</p> <p>-100</p> <p>90</p> <p>0.3±0.2</p> <p>>200</p>