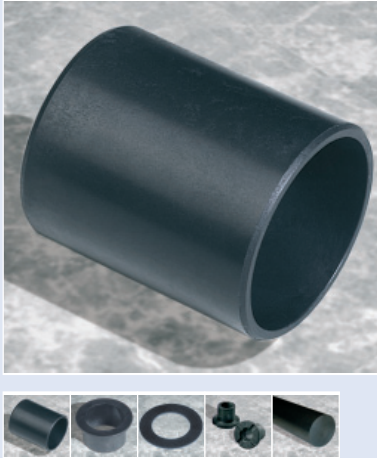
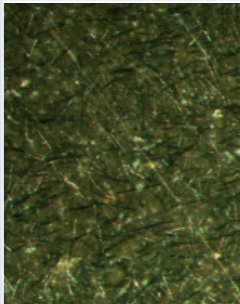


EP44™ Bearing Material	Characteristics	Applications
	<ul style="list-style-type: none"> • Injection moulded reinforced polyphenylensulfid based and modified bearing material • Good chemical and hydrolysis resistance • Excellent in lubricated applications • High dimensional stability • Colour: black 	<p>General Generally applicable within the limits of the material properties</p> <p>Industrial Domestic appliances, valve technology, electronics assembly, apparatus engineering and many more</p>

Composition & Structure	Operating Conditions	Availability										
<p>Injection moulded thermoplastic dry bearing material PPS + PTFE + Carbon fibres</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"> • N/A <p>To order</p> <ul style="list-style-type: none"> • Bushes, special dimensions and shapes
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) 0.11 2) 0.42 3) 1.69</p> <p>0.16 - 0.26</p> <p>-</p> <p>-</p> <p>+240</p> <p>-40</p> <p>95</p> <p>0.5±0.3</p> <p>>450</p>