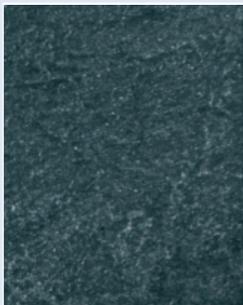


EP73™ Bearing Material	Characteristics	Applications
	<ul style="list-style-type: none"> <li>• Injection moulded polyamidimid based and modified bearing material</li> <li>• Irreversible cross-linked by thermal treatment</li> <li>• High temperature material with low thermal expansion for demanding components</li> <li>• High viscosity and mechanical strength</li> <li>• Good chemical resistance</li> <li>• High wear resistance in oscillating movements</li> <li>• Colour: black</li> </ul>	<p><b>General</b> Generally applicable within the limits of the material properties</p> <p><b>Automotive</b> Automatic gears, pumps, sealing in turbo compressors, piston rings, valve seats, sealings</p> <p><b>Industrial</b> Continuous furnaces, drying furnaces for coating, textile machines and many more</p> <p><b>Other</b> Aerospace: Weight saving by replacement of aluminium or metal alloys, while providing superior stability and viscosity. Applicable in extreme high and low temperatures e.g. turbojet engine compressor blade</p>

Composition & Structure	Operating Conditions	Availability										
<p>Injection moulded thermoplastic dry bearing material PAI + Graphite + PTFE</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><b>Ex Stock</b></p> <ul style="list-style-type: none"> <li>• N/A</li> </ul> <p><b>To order</b></p> <ul style="list-style-type: none"> <li>• Bushes, special dimensions and shapes</li> </ul>
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><b>Dry</b></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) <math>A_H/A_C = 5</math>    2) <math>A_H/A_C = 10</math>    3) <math>A_H/A_C = 20</math></p> <p>Coefficient of friction f</p> <p><b>Grease lubrication</b></p> <p>Maximum sliding speed v</p> <p>Maximum pv factor</p> <p>Coefficient of friction f</p> <p><b>General</b></p> <p>Maximum temperature <math>T_{max}</math></p> <p>Minimum temperature <math>T_{min}</math></p> <p>Maximum load p static</p> <p>Shaft surface finish <math>R_a</math></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>2.5</p> <p>1) 0.10 2) 0.39 3) 1.57</p> <p>0.19-0.31</p> <p>5.0</p> <p>-</p> <p>-</p> <p>+260</p> <p>-200</p> <p>105</p> <p>0.5±0.3</p> <p>&gt;200</p>