



EP22™ Bearing Material	Characteristics	Applications
	<ul style="list-style-type: none"> <li>• Injection moulded polybutylterephthalate based and modified bearing material</li> <li>• Good price/performance ratio</li> <li>• Rod stock for prototypes and small series production</li> <li>• Colour: white</li> </ul>	<p><b>General</b> Generally applicable within the limits of the material properties</p> <p><b>Industrial</b> Domestic appliances, chemical equipment, office equipment, sports equipment and many more</p>

Composition & Structure	Operating Conditions		Availability
Injection moulded thermoplastic dry bearing material PBT + PTFE	dry  oiled  greased  water  process fluid	good  good  good  very good  good after resistance testing	<p><b>Ex Stock</b></p> <ul style="list-style-type: none"> <li>• Cylindrical bushes, flanged bushes and rod stock</li> </ul> <p><b>To order</b></p> <ul style="list-style-type: none"> <li>• Non-standard parts</li> </ul>

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>1.0</p> <p>1) 0.05 2) 0.10 3) 0.20</p> <p>0.22 - 0.37</p> <p>-</p> <p>-</p> <p>-</p> <p>+170</p> <p>-50</p> <p>50</p> <p>0.3±0.2</p> <p>&gt;200</p>