

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

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

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) 0.05 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>>200</p>