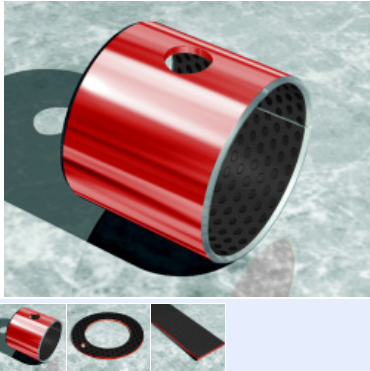



HI-EX [®] Bearing Material	Characteristics	Applications
	<ul style="list-style-type: none"> Marginally lubricated bearing material with good wear resistance under thin film conditions For hydrodynamic applications also available with plain sliding layer Suitable for use with low viscosity fluids Suitable for use at temperatures up to 250 °C Bearing polymer lining has good chemical resistance 	<p>Automotive Diesel fuel pumps, gear pumps, ABS equipment</p> <p>Industrial Hydraulic motors and pumps, agricultural equipment, wind energy equipment, yaw and teeter bearings</p>

Composition & Structure	Operating Conditions	Availability										
Metal-polymer composite material Steel + porous bronze sinter + PEEK + PTFE + fillers	<table border="1"> <tr> <td>dry</td> <td>fair</td> </tr> <tr> <td>oiled</td> <td>good</td> </tr> <tr> <td>greased</td> <td>very good</td> </tr> <tr> <td>water</td> <td>good</td> </tr> <tr> <td>process fluid</td> <td>good</td> </tr> </table>	dry	fair	oiled	good	greased	very good	water	good	process fluid	good	<p>Ex Stock</p> <ul style="list-style-type: none"> N/A <p>To order</p> <ul style="list-style-type: none"> Cylindrical bushes, thrust washers, strip and non-standard parts
dry	fair											
oiled	good											
greased	very good											
water	good											
process fluid	good											

Microsection	Bearing Properties	Unit	Value
 <p>Sliding layer PEEK + PTFE + fillers</p> <p>Porous bronze sinter</p> <p>Steel backing</p>	<p>Oil lubrication</p> <p>Maximum sliding speed v</p> <p>Maximum pv factor</p> <p>Coefficient of friction f</p>	<p>m/s</p> <p>MPa x m/s</p> <p>–</p>	<p>10.0</p> <p>-</p> <p>0.03-0.08</p>
	<p>Grease lubrication</p> <p>Maximum sliding speed v</p> <p>Maximum pv factor</p> <p>Coefficient of friction f</p>	<p>m/s</p> <p>MPa x m/s</p> <p>–</p>	<p>2.5</p> <p>2.8</p> <p>0.08-0.12</p>
	<p>General</p> <p>Maximum temperature T_{max}</p> <p>Minimum temperature T_{min}</p> <p>Maximum load p static</p> <p>Maximum load p dynamic</p> <p>Shaft surface finish R_a</p> <p>Shaft hardness - normal</p> <p>Shaft hardness - for longer service life</p>	<p>°C</p> <p>°C</p> <p>MPa</p> <p>MPa</p> <p>µm</p> <p>HB</p> <p>HB</p>	<p>+250</p> <p>-150</p> <p>140</p> <p>100</p> <p>≤0.4</p> <p>>200</p> <p>>350</p>