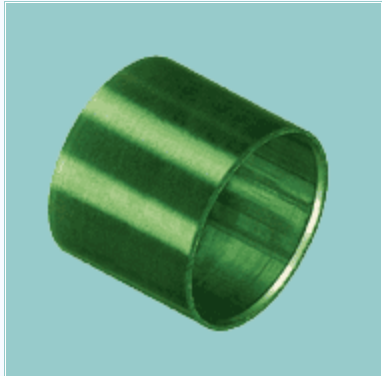

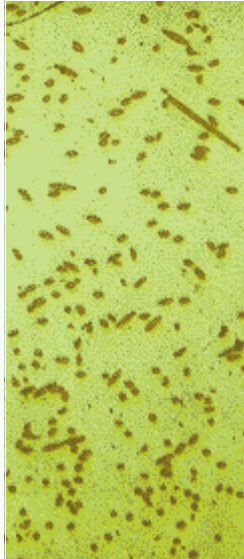


Characteristics	Applications	Torlon®
<ul style="list-style-type: none"> <li>Injection moulded polyamide-imide base material modified to enhance friction and wear</li> <li>Manufactured by precision injection moulding</li> <li>Outstanding bearing performance under higher temperatures and loads compared with standard plastic materials</li> <li>High thermal stability and vibrational wear performance</li> <li>Broad chemical resistance (apart from hot aqueous environments)</li> <li>Colour: various</li> <li>Post cured after moulding produces non-melting polymer composite</li> </ul>	<p><b>Automotive</b></p> <ul style="list-style-type: none"> <li>Pumps</li> <li>labyrinth seals for turbochargers</li> <li>piston rings</li> <li>seals</li> <li>washers</li> <li>bearings</li> </ul> <p><b>Industrial</b></p> <ul style="list-style-type: none"> <li>Textile machines</li> </ul> <p><b>Other</b></p> <ul style="list-style-type: none"> <li>Friction and wear parts</li> </ul>	 

Composition & Structure	Operating Conditions		Availability
PAI + graphite + PTFE	dry	good	<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>Cylindrical bushes</li> <li>flanged bushes</li> <li>Special dimensions</li> <li>shapes</li> </ul>
	oiled	good	
	greased	good	
	water	good	
	process fluid	good	

Bearing Properties	Unit	Value	Microsection
<b>Dry</b>			 <p>PAI + graphite + PTFE</p>
Maximum sliding speed U	m/s	2.5	
Maximum PU factor	N/mm <sup>2</sup> * m/s = W/mm <sup>2</sup>	4.0	
Coefficient of friction f	–	0.10-0.15	
<b>Oil lubrication</b>			
Maximum sliding speed U	m/s	-	
Maximum PU factor	N/mm <sup>2</sup> * m/s = W/mm <sup>2</sup>	-	
Coefficient of friction f	–	-	
<b>General</b>			
Maximum temperature T <sub>max</sub>	°C	+260	
Minimum temperature T <sub>min</sub>	°C	-200	
Maximum load P static	N/mm <sup>2</sup>	150	
Maximum load P dynamic	N/mm <sup>2</sup>	75	
Shaft surface finish Ra	µm	0.2-0.8	
Shaft hardness	HB	>200	
Shaft hardness for longer service life	HB	>350	