

PLASTIC BUSHES AND BEARING

QUESTIONNAIRE FOR MATERIAL SELECTION AND DESIGN



A Bush or a bearing is known as a Plain Bearing, i.e. they dont have rolling elements like a ball bearing. The primary function is to support movement by being an interface between rotating or sliding parts. This crucial component is designed to reduce friction between moving parts and act as a sacrifical wear component.

BENEFITS OF PLASTIC BUSHES & BEARINGS

Eliminating Lubricants – unlike rolling element beraings and bronze bushes, often plastic bushes and beraings can run dry, especially when self-lubricating materials such as Ertalon LFX and Ertalyte TX are utilized.

Dirty & dusty conditions – where traditional bearings suffer, plastics with high abrasion resistance such as Polystone 7000 and Ertalon LFX can provide maintenance free operation.

Low Friction – metal-on-metal sliding in the case of bronze results in higher friction than plastic-on-metal, requiring higher energy and wear rates, opposed to the low friction of plastics, such as Nylatron NSM, Nylatron 703XL, Ertalyte TX and Ticomp S.

Reduced wear – traditional plain bushes such as bronze result in higher shaft wear and therefore reduced service life of both the bush and the shaft (or counter-face).

Dotmar has qualified engineers that can provide direct support with plastic bush and bearing designs, including conducting calculations and reports.



BEARINGDESIGN GUIDE APPLICATION

DEGIGN GOIDE ATTERCATION											
Company											
Address		City/Suburb									
		State									
		Post Code									
Contact											
Phone											
Email											
Technical Information Required For Bearing Calculation											

Technical Information Required For Bearing Calculation											
		mm /		mm /							
		mm /	,		mm /						
		mm									
Load		kg; Newtons 9.81N = 1kg									
Min				C Max		С					
		% 1 Hour Continously = 100%									
	Yes		N	0							
	Yes		N	0							
	Yes		N	0							
	Yes		N	0							
	Yes		N	0							
	50%		80	0%							
	Yes		N	0							
	Yes		N	0			%				
If Yes Type:					Concentra	ation:					
	Min	Min Yes Yes Yes Yes Yes Yes Yes Ye	mm / mm	mm / mm / mm / mm / mm / kg; New Min Yes N Yes N	mm / mm / mm / mm / kg; Newtons 9.81N Min	mm / mm	mm / mm				