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TECHNICAL INFORMATION BEARING TECHNICAL INFORMATION

Clearance:

Plastic bearing clearances should be much greater than those recommended for standard precision steel bearings. The additional clearance is required to compensate for expansion or contraction of the plastic material due to frictional heat or cold environments which can cause significant changes in the bearing dimensions.

Lubrication:

The use of lubricants can decrease the static and dynamic coefficients of friction and permit the plastic materials to operate at higher PV's than a bearing that is not lubricated. Most plastics listed in the selection table on page TP 01 do not require lubrication but some lubricant will usually increase the material performance. In most cases water will provide sufficient lubrication during bearing operation. It is good practice to apply a light coating of grease to the bore of the bearing during the installation of the bearing.

Shaft Hardness and Shaft Material:

Shaft hardness and material is a major factor in the operation of the plastic bearings. The bearing and shaft will last much longer as the hardness increases and the finish is smoother.

Chemical Resistance Data:

Due to the number factors involved in material selection for chemical resistance information please consult factory. You will need to supply the chemical name, concentration and operating temperatures for evaluation.

Disclaimer

All statements, technical information and recommendations contained in this publication are presented in good faith, based upon tests believed to be reliable and practical field experience. The reader is cautioned, however, that BNB Industries, Inc. cannot guarantee the accuracy or completeness of this information, and it is the customer's responsibility to determine the suitability of these products in any given application. BNB Industries, Inc. recommends actual field testing of the material and application under actual conditions for evaluating suitability for use.