SELECTING PLASTICS FOR WEARING APPLICATIONS

Plastics can be used in a variety of industries and applications. It is very common for plastics to be used as bearing material. Its properties generally increase wear performance and are not harmful to mating parts. When selecting a plastic material for a bearing material, PV is something you should know.

The PV value determines amount of pressure and velocity the material can handle. Pressure is the load being applied on the material in "PSI". Velocity is the linear speed of a shaft, chain or plate that is moving over a projected area expressed in "FPM".

To calculate PV for bushings use the following equations.

Projected Area

Bearing ID _____ x Length ____ = ____ Sq.in

Pressure

Bearing Load _____ + Projected Area _____ = ____ psi

Velocity

0.262 x _____ rpm x Shaft Diameter ____ = ____ fpm

PV - Imposed PV on Bearing

_____ psi x _____ fpm = _____ PV

PV VALUES OF PLASTICS

Material	PV Value
UHMW-PE	2000
Nylatron GSM	3000
Nylatron NSM	15,000
Acetron GP	2700
Ertalye TX	6000
Peek HPV	35,000

If you require more information on calculating PV values please contact TECHNICOR INDUSTRIAL SERVICES INC.

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