REDWOOD PLASTICS
INNOVATIVE SOLUTIONS IN PLASTIC

Performance Materials, Application Experts

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General Information

Company | Date

Contact

Address

Phone | Email

Application

Technical Specifications

Nominal ID (in/mm) | Plus | Minus | Nominal OD (in/mm) | Plus | Minus

Length (in/mm) | Plus | Minus | Shaft Diameter (in/mm) | Plus | Minus

Shaft RPM | Shaft Finish | Shaft Material and Hardness

Housing Size and Tolerance | Plus | Minus | Load (in lbs/kg)

Temp of Operating Environment | Min | Max | What is being used now?

Questions

If the bearing is linear, what is the length of stroke and the cycles per minute?

What is the primary load factor: radial or axial or both?

Does the bearing experience shock or excessive vibration?

If the bearing is oscillating, what is the angle of rotation, cycles per minute, and dwell time?

Are the temperature variations (if any) gradual or rapid?

Type of Media: air, gas, or liquid? Intermittent or Constant?

Is the environment abrasive in nature?

Does the environment call for electrical: dissipation or insulation?

Does the environment call for thermal: insulation or transfer?

Does the application require: FDA, NSF, USDA, 3A or USP?

Is the shaft running: vertically, horizontally, or diagonally?

Is shaft misalignment anticipated?

Are there special shaft treatments: hardcoat, ENP, chrome, TFE?

Notes about the hardware (housing material, etc.):

Chemicals in contact with the bearing

Reference

Bearing Load (P value) is LBS / (ID x Length)

		0.0000		1
ID	*Length*	*ID x L*	*Load*	*Load / (ID x L) = P value*

Relative Velocity (V) is Shaft Dia x 3.14/12 x RPM

	3.1415	0.0000	0.0000	0
Shaft Dia.	*x pi*	*equals*	*div. by 12=*	*x RPM= V Value*

PV Value

1	0	0
P times	*V equals*	*PV*

Additional Notes