

2.007 Kit Part: Nyliner & Nylon Bushings



Snap-in bearings

0.25" bore, 0.16" long

0.45" Ø flange #1, 0.34" Ø flange #2

Nyliner bushings

Static load rating - 32 lbf

Dynamic load rating @ 50rpm - 5 lbf

Dynamic load rating @ 250rpm - 2 lbf

Flanged bearings

0.25" bore, 0.25" long

0.43" Ø flange

Nyliner bushings

Static load rating - 127 lbf

Dynamic load rating @ 50rpm - 16 lbf

Dynamic load rating @ 250rpm - 6 lbf

Nylon bushings

0.25" bore, 0.50" long, .38" OD

Molded Nylon bushings

Static load rating ~ 50 lbf

Dynamic load rating @ 50rpm ~ 6 lbf

Dynamic load rating @ 250rpm ~ 3 lbf

Quantity:

These parts are available in arbitrary quantities so long as they are used appropriately and the student has a drawing illustrating their use.

Possible uses:

1. Linear bearings
2. Rotary bearings
3. Thrust bearings

Tips:

For additional design data for the flanged Nyliner bearings, consult Thomson Industries' [Nyliner Bearings Designer's Guide](#).* The bearing available in the kit is a "type 5," model number 4L4-F, TEP 110 material.

For a flanged nylon bearing drill hole using an M drill bit (0.295" diameter).

For best results you should use a shaft that is slightly smaller than 0.250", a good free sliding size would be a few thousandths smaller in diameter.

The snap-in bearings are designed to be used in the thin aluminum. Simply punch a hole a snap the bearing in the hole.

A small amount of oil will dramatically increase the dynamic load rating and decrease friction between the shaft and the bearing.

* See the Section Page for the Linked Resources