

EPTTM30

Self-Lubricating Engineered Plastic Bushings

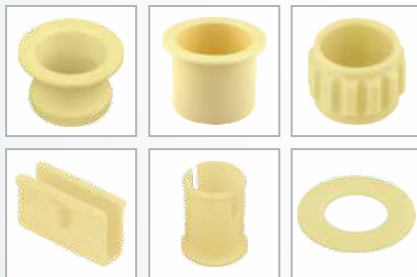


CHARACTERISTICS

- Good bushing performance in dry working conditions
- Very good bushing performance in lubricated or marginally lubricated applications
- Corrosion resistant in humid/saline environments
- Very good price performance ratio
- Very good weight performance ratio
- Very good in elasto hydrodynamic applications
- Within injection moulding tool feasibility unlimited dimensions and design features
- Compliant to EVL, WEEE and RoHS specifications

AVAILABILITY

Bearing forms made to order: standard forms in special dimensions, thrust washers, half-bearings, sliding plates, customized bearing designs



APPLICATIONS

General: Generally applicable within the limits of the material properties

Industrial: Domestic appliances, chemical equipment, office equipment, sports equipment and many more

Automotive: Waterpumps, Pedals, Seats, Sliders



EP™30 Technical Data

| Bearing Properties | | Imperial Units | Imperial Value | Metric Units | Metric Value |
|---|---|---------------------|----------------|-------------------------|--------------|
| General | | | | | |
| Maximum load, p | Static | psi | 9 500 | N/mm ² | 65 |
| Operating temperature | Min | °F | - 60 | °C | - 50 |
| | Max | °F | 392 | °C | 200 |
| Coefficient of linear thermal expansion | | 10 ⁻⁶ /F | 22 | 10 ⁻⁶ /K | 40 |
| Dry | | | | | |
| Maximum sliding speed, U | | fpm | 200 | m/s | 1.0 |
| Maximum pU factor | for A _H /A _C = 5 | psi x fpm | 1 400 | N/mm ² x m/s | 0.05 |
| | for A _H /A _C = 10 | psi x fpm | 2 800 | N/mm ² x m/s | 0.10 |
| | for A _H /A _C = 20 | psi x fpm | 5 700 | N/mm ² x m/s | 0.20 |
| Coefficient of friction | | | 0.08 - 0.16 | | 0.08 - 0.16 |
| Recommendations | | | | | |
| Surface roughness, Ra | | μin | 4 - 20 | μm | 0.1 - 0.5 |
| Surface hardness | | HV | > 200 | HV | > 200 |

Operating Performance

| | |
|--------------------------|-------------------------------|
| Dry | Very Good |
| Oil lubricated | Good |
| Grease lubricated | Good |
| Water lubricated | Very Good |
| Process fluid lubricated | Good after resistance testing |

Microsection



PA 6.6 + AF
Solid Lubricant