# Multilube

**THERMOPLASTIC PLAIN BEARINGS**

## APPLICATIONS

**Industrial** – Linkages, seat suspensions

## CHARACTERISTICS

- Good bearing performance in dry working conditions.
- Good bearing performance in lubricated or marginally lubricated applications
- Corrosion resistant in humid/saline environments
- Good price performance ratio
- Very good weight performance ratio
- Within injection moulding tool feasibility unlimited dimensions and design features

## AVAILABILITY

**Bearing forms made to order:** Cylindrical bushings, flanged bearings, thrust washers, sliding plates, half-bearings, customized bearing designs

| BEARING PROPERTIES | | IMPERIAL UNITS | IMPERIAL VALUE | METRIC UNITS | METRIC VALUE |
|---|---|---|---|---|---|
| **GENERAL** | | | | | |
| **Maximum load, p** | Static | psi | 9 000 | $N/mm^2$ | 60 |
| | Dynamic | psi | 4 500 | $N/mm^2$ | 30 |
| **Operating temperature** | Min | °F | - 40 | °C | - 40 |
| | Max | °F | 180 | °C | 80 |
| | Momentary | °F | 250 | °C | 120 |
| **Coefficient of linear thermal expansion** | | $10^{-6}$/F | 56 | $10^{-6}$/K | 101 |
| **DRY** | | | | | |
| **Maximum sliding speed, U** | | fpm | 300 | m/s | 1.5 |
| **Maximum pU factor** | | psi x fpm | 17 000 | $N/mm^2$ x m/s | 0.6 |
| **Coefficient of friction, f** | | | 0.1 - 0.2 | | 0.1 - 0.2 |
| **RECOMMENDATIONS** | | | | | |
| **Shaft surface roughness, Ra** | | µin | 8 - 32 | µm | 0.2 - 0.8 |
| **Shaft surface hardness** | Normal | HB | > 200 | HB | > 200 |
| | For longer service life | HB | > 350 | HB | > 350 |

| OPERATING PERFORMANCE | |
|---|---|
| **Dry** | Good |
| **Oil lubricated** | Good |
| **Grease lubricated** | Good |
| **Water lubricated** | Fair |
| **Process fluid lubricated** | Fair |

| OPERATING PERFORMANCE | |
|---|---|
| **Water lubricated** | EP22 |
| **Process fluid lubricated** | EP22 |

## MICROSECTION

POM + Solid Lubricant + Fillers