

Multifil

PROPRIETARY FILLED PTFE SLIDING BEARING TAPE



APPLICATIONS

Industrial – Machine tool ways, gibs and other sliding applications

CHARACTERISTICS

- Superior sliding bearing material which can be easily bonded to any clean, rigid substrate
- Reduces vibration
- Tested acc. to ASTM E595/ECSS-Q-ST-70-02C - Outgassing properties of materials used in Spacecraft equipment

AVAILABILITY

Bearing forms made to order: Bearing Tape

Tape with 0.015" to 0.125" (0.38 to 3.2 mm) thickness and 12" (305 mm) width or 24" (610 mm) width

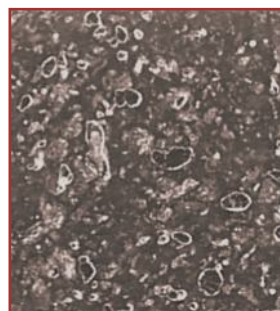


| BEARING PROPERTIES | | UNITS | VALUE |
|--------------------------------|---------|-------------------------|-----------|
| GENERAL | | | |
| Maximum load, p | Static | N/mm ² | 70 |
| | Dynamic | N/mm ² | 35 |
| Operating temperature | Min | °C | - 200 |
| | Max | °C | 280 |
| DRY | | | |
| Maximum sliding speed, U | | m/s | 2.5 |
| Maximum pU factor | | N/mm ² x m/s | 0.32 |
| Coefficient of friction, f | | | 0.07 |
| GREASE / OIL LUBRICATED | | | |
| Maximum sliding speed, U | | m/s | 1.25 |
| Coefficient of friction, f | | | 0.05 |
| RECOMMENDATIONS | | | |
| Shaft surface roughness, Ra | | µm | 0.2 - 0.4 |
| Shaft surface hardness | | HB | > 200 |

* Depending on operating conditions

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

MICROSECTION



PTFE tape with proprietary fillers