

TETRON B PTFE Product Information

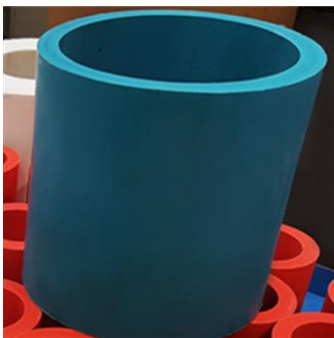
Product Description

TETRON B is the trade name for bronze-fill polytetrafluorethylene (PTFE). Bronze is a copper and tin alloy providing better creep resistance than most of the PTFE alloys. It is often used hydraulic systems but is not suited to electric applications. Bronze is also attacked by certain chemicals.

The product has a dark brown colour, a non-oxidizing alloy is used for good appearance.

Applications

- Piston Rings (Compressors)
- Bushes – Bearings
- Gaskets
- Seals – Hydraulic Systems



Physical Properties

Ultimate Tensile Strength Test Method ASTM D1708, Units N/mm ² Temp + 23°C	15
Elongation Test Method ASTM D1708, Units % Temp + 23°C	150 - 200
Compressive Modulus Test Method ASTM D695, Units N/mm ² Temp + 23°C	1050
Izod Impact Test Method ASTM D256, Units J/m Temp + 23°C	161
Hardness Test Method Shore D, Temp + 23°C	70
Permanent Deformation Test Method ASTM D621, Units % Temp + 23°C	8.4
Linear Coefficient of Thermal Expansion Test method ASTM E831, Units X 10 ⁻⁶ /°C Temp + 23°C + 100°C	MD- 117 CD =110
Thermal Conductivity Test Method ASTM C177, Units W/(mK) Temp + 35°C	0.57
Dielectric Strength Test Method ASTM DI 49, Units kV/mm Temp + 23°C	-
Surface Resistivity Test Method ASTM D25, Units Ω Temp + 23°C	> 10 ¹⁶
Flammability Flash Point Test Method ASS M DI 929, Units °C	640
Static Coefficient of Friction Test Method Polished Steel, Temp + 23°C	0.09
Chemical Resistance Temp + 200°C	Limited
Specific Gravity Test Method ASTM C 1457, Temp + 23°C	3.95