

TETRON GR PTFE Product Information



Product Description

TETRON GR is the trade name for glass/graphite filled polytetrafluorethylene (PTFE). The combination of fillers makes for a chemically inert alloy with excellent wear properties against soft metals.

There is also reduced deformation under load at both high and low temperatures. It is an excellent bearing material which is self-lubricating and with low friction properties.

Applications

- Slide Bearings
- Piston Seal Wear Bands
- Bearing Rings (pumps)
- Seals

Physical Properties

Ultimate Tensile Strength Test Method ASTM D1708, Units N/mm ² Temp + 23°C	15 - 18
Elongation Test Method ASTM D1708 Units % Temp + 23°C	200 - 250
Compressive Modulus Test Method ASTM D695, Units N/mm ² Temp + 23°C	870
Izod Impact Test Method ASTM D256, Units J/m Temp + 23°C	170
Hardness Test Method Shore D, Temp + 23°C	64
Permanent Deformation Test Method ASTM D621, Units % Temp + 23°C	13.1
Linear Coefficient of Thermal Expansion Test method ASTM E831, Units X 10 ⁻⁶ /°C Temp + 23°C + 100°C	MD=112
Thermal Conductivity Test Method ASTM C277, Units W/(mK) Temp + 35°C	0.38
Dielectric Strength Test Method ASTM D149, Units kV/mm Temp + 23°C	2.48
Surface Resistivity Test Method ASTM D257, Units Ω Temp + 23°C	107
Flammability Flash Point Test Method ASTM D1929, Units °C	630
Static Coefficient of Friction Test Method Polished Steel, Temp + 23°C	0.07
Chemical Resistance Temp + 200°C	VERY GOOD
Specific Gravity Test Method, ASTM 1457 Temp + 23°C	2.20