

HiTemp 230 - Typical Properties

- Bearing Grade for High Temperatures up to 230 °C
- High PV (Load x Speed) Limits
- High Chemical and Radiation Resistance
- Steam and Boiling Water Resistance

	METRIC	IMPERIAL
Density	1.89	
Tensile strength (dry)	110 MPa	16,000 psi
Tensile modulus	15,000 MPa	2,176,000 psi
Tensile elongation at break	1%	
Flexural modulus (dry)	15 GPa	2,176,000 psi
Water absorption at ambient 65% RH	0.03%	
Coefficient of thermal expansion	2.7×10^{-5} mm/mm.°C	1.5×10^{-5} in/in.°F
Melting point	282°C	540°F
Heat distortion temperature (1.8 MPa)	278°C	530°F
Continuous temperature rating	200°C	390°F
Short-term temperature rating	240°C	460°F
Design loading	80 MPa	11,600 psi
PV Limit	70 MPa.m/min	400,000 psi.in/min
Coefficient of friction at ambient - dynamic	0.17 - 0.24	
Gamma radiation resistance	1,000 Megarads	
Chemical resistance	Generally high	
Impact strength IZOD (Unnotched)	20 kJ/m ²	9.5 ft-lb/in ²

The above data should be taken for indicative purposes. Physical properties may be altered to some extent by processing conditions.