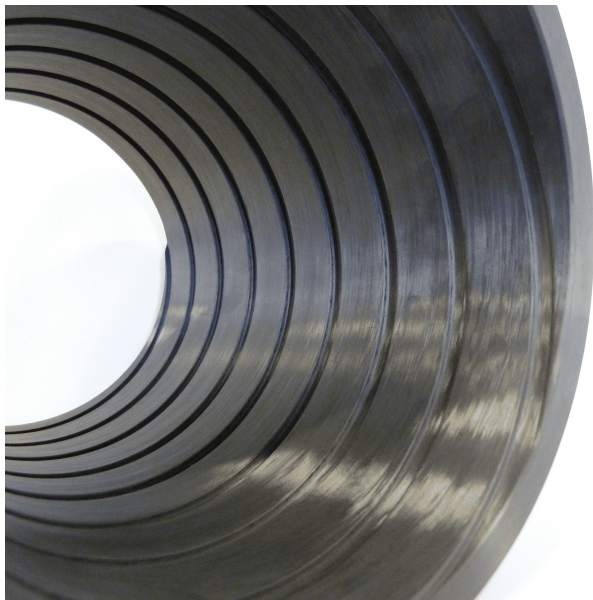


TMC W70



General

TMC W70 is a high performance thermoplastic developed for high demanding applications. With a coefficient of thermal expansion close to zero TMC W70 can be used in design which require close clearances over a wide range of temperatures. A lower friction material, TMCW70L, can be delivered on request.

Benefits

TMC W70 has all benefits of a thermoplastic material:

- Thermoshock proof
- Not brittle
- Elastic
- Dry run capabilities
- No corrosion
- Excellent bearing properties
- Anti-galling unlike metal-metal contact

TMC W70 specific benefits:

- Very low thermal expansion
- Extremely high tensile and compression strength
- High chemical resistance
- High dimensional stability

Mechanical properties

PARAMETER	UNITS	VALUE
Tensile strength	MPa	2100
Compression strength	MPa	1400
Hardness	Shore D	98
Thermal Expansion	$10^{-6}/K$	0.23
Friction	-	0.13
Density	g/cm^3	1.61
Design Temperature	°C	200
Max. Temperature	°C	290
Min. Temperature	°C	-100

