High Performance Low Friction Polymer Coatings

RoHS compliant

TriboShield® TS651

TS651 is based on high-performance thermoplastics specifically designed for constant low friction from low to moderately high loads in dry or lubricated conditions. Highly suitable for high-frequency / low amplitude (HFLA) applications, particularly in dry conditions. TS651 is part of the standard TriboShield® product range.

TYPICAL APPLICATIONS

- Solenoid armatures
- Struts and shock absorbers
- Compressors and radial piston pumps
- Gimbals

UNIQUE CHARACTERISTICS

- Excellent performance in dry condition
- Good performance in lubricated condition
- Very low stick-slip characteristic
- Excellent wear resistance up to moderately high loads

AVAILABILITY

TriboShield® coatings are applied directly to the customer's part and are suitable for complex geometries as well as various substrates e.g. steel, stainless steel, Al, Ti, Mg, etc. They can be used for both interacting surfaces that are in relative motion.

For questions and assistance, contact a GGB engineer at: **https://www.ggbearings.com/en/contact**

TriboShield® TS651

TECHNICAL DATA

COATING PROPERTY	UNIT	VALUE
Color*	-	Dark Brown
Standard thickness	µm	25
Maximum continuous service temperature	°C / °F	260 / 500
Maximum short-term peak temperature	°C / °F	280 / 536
Friction coefficient, typical range**	-	0.06 - 0.30
Food contact compliant	-	No

*   Other colors possible upon customization request (limited)
** Dependent on contact pressure, sliding speed and contact geometry.

TRIBOMATE® UPGRADE AVAILABLE

Yes

TRIBOMATE® PAIRED COATINGS

For optimized performance in regard of

- significant reduction of friction in dry conditions
- improved wear life
- stable performance

we offer TriboMate® paired coatings which are specifically designed to work with and enhance the performance of our polymer coating products.

Pairing a TriboShield® coating with another TriboShield® coating solution or with a GGB bearing material, offers significantly reduced friction and can further extend system lifetime.

GGB Bearing or TriboShield®

Housing

Counter surface

TriboMate® Coating