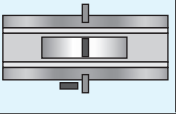


Product Specifications

Laboratory Data:

Viscosity		
Stabinger (ASTM D7042)	Temperature	ν (mm ² /s)
	0 °C [32 °F]	810
	20 °C [68 °F]	510
	40 °C [104 °F]	350
Viscosity-Index (ISO)		420
Viscosity-Temperature-Behaviour		excellent

Color	blue
Permanent Low Temperature 72 hrs fluid	-35 °C [-31 °F]
Application Temperature	-30 °C to +120 °C [-22 °F to +248 °F]
Density 20 °C [68 °F] (DIN)	0.97 g/cm ³
Surface Tension	21 mN/m
Evaporation Rate 24 hrs/105 °C [221 °F]	0.1 % very low
Wetting	very good
Durability	very good
Compatibility with Plastics compatible	PA11, PA66, PBT, PC, POM, PPO, SB, TPU
satisfactory incompatible	ABS, PA12, PA6-3T ASA. POM (CL)
Composition	Polysiloxanealcohol

Comments:

Special lubricant for plastic/plastic and plastic/metal bearing combinations. Very good friction and wear reduction. Ageing better than silicone oils. Among the highest Viscosity Indices of all known clock and instrument oils, which allows for both, application in wide temperature ranges and excellent noise damping. Good wetting characteristics. Epilamination with Antispread necessary, when applying large quantities of oil.

Experiences: For over 10 years in series production. Manufactured quantity over 50,000,000 clock movements. Long-term stability (over 10 years) is well established.

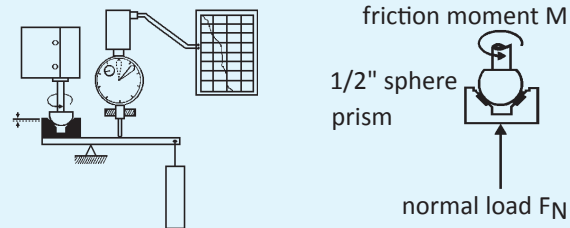
P181c

Plastic Oil K 2363/509 blue

Article No. TS2302
Precision Lubricant for Plastics

Tribological Data:

Test System: sphere on prism (ISO 7148/2)

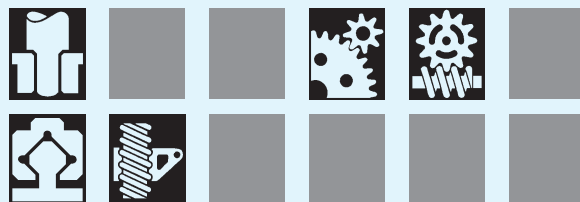


Friction Behaviour			friction coefficient f			
dependent on sliding speed			0.1	0.2	0.3	0.4
ν (mm/s)	f					
0	0.06					
20	0.01					
50	0.01					
200	0.01					
materials:		steel/POM, load 3 N, 25 °C [77 °F]				
lubricant:		Plastic Oil K 2363/509 blue				

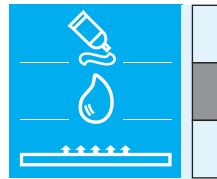
Wear Behaviour			wear (in mm)				
comparison: dry and lubricated with Plastic Oil K 2363/509 blue			0.01	0.03	0.1	0.3	1.0
materials							
St/POM:	TS2302						
	dry						
St/PC:	TS2302						
	dry						
test parameters:		load 30 N, distance 10 km, 25 °C [77 °F], $\nu=28.1$ mm/s					

Application:

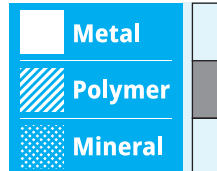
Plastic bearings in precision machinery; analog quartz movements (step-motor), switch clocks, timers, medical instruments, optics, cameras, cassette decks, controls, video drives.



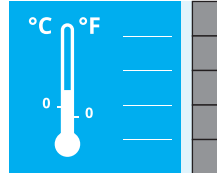
Product



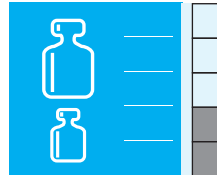
Bearing material



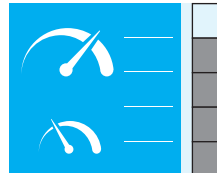
Application temperature



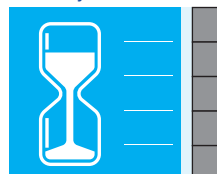
Bearing load



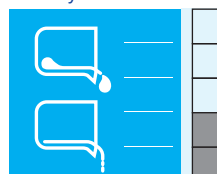
Sliding speed



Durability



Viscosity



Wetting

