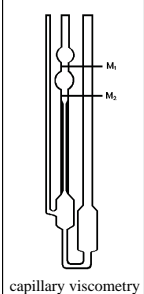


Product Specifications

Laboratory Data:

Kinematic Viscosity (DIN)		
Temperature	v (mm ² /s)	
0°C [32°F]	1600	
20°C [68°F]	1000	
40°C [104°F]	690	
Viscosity Index (ISO)	420	
Viscosity-Temperature-Behavior very good		



capillary viscometry

Permanent Low Temperature -30°C [-22°F]
(72 hrs without crystallization)

Application Temperature -25°C to +120°C [-13°F to +248°F]

Density 20°C [68°F] (DIN) 0.97 g/cm³

Surface Tension 22 mN/m

Color (ASTM) blue

Evaporation Rate (16 hrs/105°C [221°F]) -0.4 %
very low

Wetting very good

Durability very good

Compatibility with Plastics
compatible PA11, PA66, PBTP, PC
POM, PPO, SB, TPU

satisfactory ABS, PA12, PA6-3T

incompatible ASA, POM (CL)

Chemical Name Polysiloxanealcohol

Comments:

Special lubricant for plastic/plastic and plastic/metal bearing combinations. Very good friction and wear reduction. Aging 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.

P058

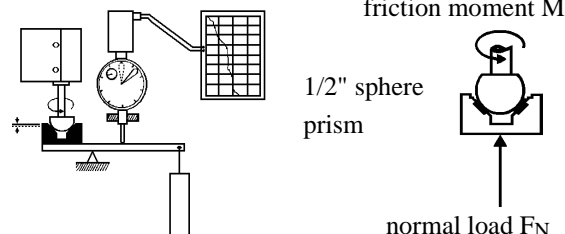
Plastic Oil K2363/1000

Article No.: TS2402

Precision Lubricant for Plastics

Tribological Data:

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



Friction Behavior					
dependent on sliding speed					
v (mm/s)	f	friction coefficient f			
		0.1	0.2	0.3	0.4
0	0.03				
20	0.01				
50	0.01				
200	0.06				

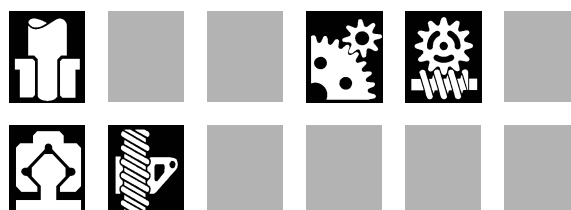
materials: steel/POM, load 3N, 25°C [77°F]
lubricant: Plastic Oil K2363/1000

Wear Behavior						
comparison: dry and lubricated with Plastic Oil K2363/1000						
materials		wear (in mm)				
		0.01	0.03	0.1	0.3	1.0
St/POM:	K2363					
	dry					
POM/PC:	K2363					
	dry					

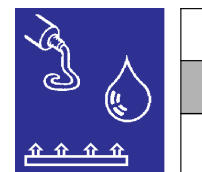
test parameters: load 30N, distance 10 km, 25°C [77°F], v = 28.1 mm/s

Application:

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



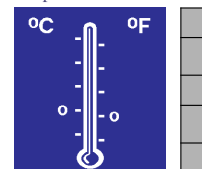
Product



Bearing material



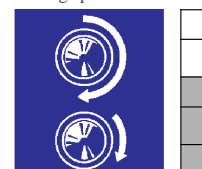
Application temperature



Bearing load



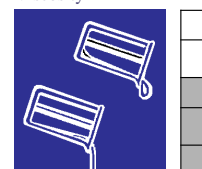
Sliding speed



Durability



Viscosity



Wetting

