

Product Specifications

Laboratory Data:

Kinematic Viscosity (DIN)							
	Temperature	$V (mm^2/s)$					
M ₂	0°C [32°F]	950					
	20°C [68°F]	600					
	40°C[104°F]	400					
apillary viscometry	Viscosity Index (ISO)	420					
Viscosity-Te	mperature-Behavior	very good					

Permanent Low Temperature -50°C (72 hrs without crystallization) [-58°F]

-45°C to +120°C **Application Temperature** $[-49^{\circ}F \text{ to } +248^{\circ}F]$

 0.97 g/cm^3 **Density** 20°C [68°F] **Surface Tension** 22 mN/m Color red **Evaporation Rate** -1.0 % (24 hrs/105°C [221°F]) low

Wetting very good **Durability** very good

Compatibility with Plastics

compatible PA11, PA12, PA6-3T,

> PA66, PBTP, PC, POM, PPO, TPU

ABS, SB satisfactory

incompatible ASA, POM (CL) **Chemical Name** Frigopolysiloxane-

alcohol

Comments:

Plastic Oil K4563 has been developed particulary for applications in the automotive and aviation field. It fulfills the requirement to withstand 48 hours low temperature storage at -40°C [-40°F]. The oil exhibits strong noise damping characteristics between -40°C and 120°C [-40°F and 248°F], due to its excellent viscosity-temperature-behavior. Compatible nearly all plastics. Unaffected by humidity. Applicable under high pressure loads. Good wetting characteristics. Epilamisation with Antispread necessary, when applying large quantitites of oil.

Experiences: Basic oil in over 70.000.000 automotive instruments. Long-term stability (over 10 years) is well established.

P053a

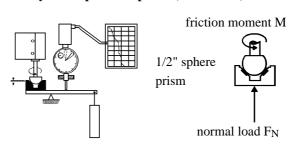
Plastic Oil K4563/600

Article No.: TS3104

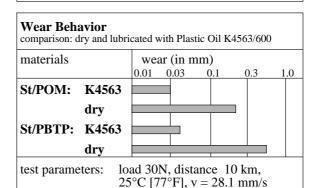
Precision Oil for Automotive and Aviation Instruments

Tribological Data:

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



Friction Behavior dependent on sliding speed							
v (mm/s)	f		friction coefficient f				
		+ '	7.1	0.2	0.5	0.4	
0	0.07						
20	0.03						
50	0.03						
200	0.04						
materials: steel/POM, load 3N, 25°C [77°F]							
lubricant:	Plastic Oil K4563/600						





Bearing material



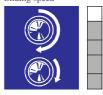
Application temperature



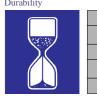
Bearing load



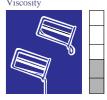
Sliding speed



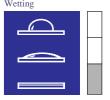
Durability



Viscosity







Application:

Plastic bearings in automotive and aviation instruments, instruments under difficult environmental conditions, meters and controls in coldstorage rooms, meteorological instruments, offshore applications.

Speedometers, tachometers, automotive clocks, timers, meters, clocks.

















