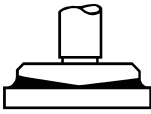


Product Specifications

Laboratory Data:

Dynamic Viscosity (DIN)		
Shear rate D = 1000/s	Temperature	η (mPa·s)
	25°C [77°F]	130 - 190
system: Cone-on-plate	Viscosity-Index (ISO)	420 (base oil)
Flow Behavior	intrinsically viscous	
Viscosity-Temperature-Behavior	very good	

Consistency	fluid
Color	light blue
Oil Separation FTMS (48 hours/85°C)	not applicable
Permanent Low Temperature Base Oil (72 hrs. fluid)	-45°C [-49°F]
Application Temperature	-40°C to +120°C [-40°F to 248°F]
Base Oil	frigopolysiloxane alcohol
Viscosity Base Oil 20°C [68°F]	100 mm ² /s
Thickener	micro Teflon powder, no metallic soaps
Durability	very good
Compatibility with Plastics compatible	LCP, PA66, PBTP, PC, POM, PPO, SB
satisfactory	ABS
incompatible	ASA, POM (CL)

Comments:

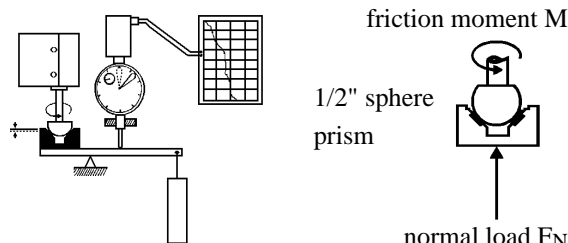
Plastic Grease K4563/100 PTFE blue has been developed particularly for applications in the automotive and aviation field. It fulfills the requirement to withstand 48 hours low temperature storage at -40°C [-40°F]. High durability due to a thickener free of metallic soaps. Unaffected by humidity. Applicable under high pressure loads. Good wetting characteristics. Epilimisation with Antispread necessary, when applying large quantities of oil.

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

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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	0.06				
20	0.03				
50	0.02				
200	0.01				

materials: steel/polyacetale, load 3N, 25°C [77°F]
lubricant: Plastic Grease K4563/100 PTFE blue

Wear Behavior

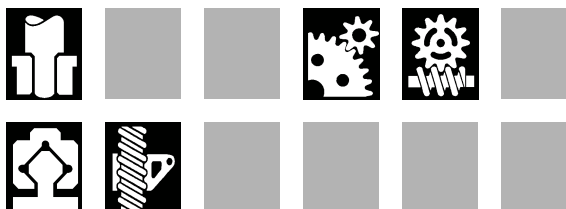
comparison: dry and lubricated with Grease K4563/100 PTFE

materials		wear (in mm)				
		0.01	0.03	0.1	0.3	1.0
St/POM:	Grease					
	dry					
POM/PBT:	Grease					
	dry					

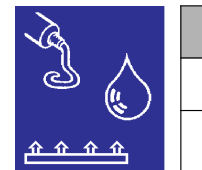
test parameters: load 30N, distance ~10 km,
25°C [77°F], v = 28.1 mm/s

Application:

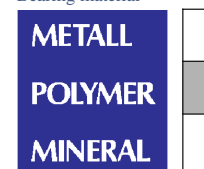
Precision gears and sliding bearings out of plastic materials in automotive and aviation instruments under difficult environmental conditions. Step motors, tachometers, tachographs, speedometers, timers, supply meters, automotive clocks,.



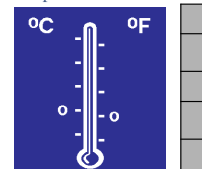
Product



Bearing material



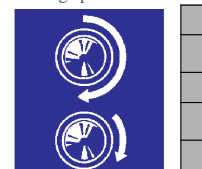
Application temperature



Bearing load



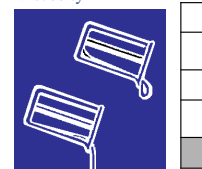
Sliding speed



Durability



Viscosity



Wetting

