

## Product Specifications

### Laboratory Data:

Penetration		
quarter cone	Unworked penetration	Worked penetration
	260 - 320 mm/10	270 - 330 mm/10
NLGI Class		1-2
Consistency		medium soft

<b>Color</b>	white
<b>Dropping Point</b>	180 °C [ °F]
<b>Oil Separation (FTMS)</b> 48 hrs/85 °C [185 °F]	7,5 %
<b>Permanent Low Temperature Base Oil</b> 72 hrs fluid	-40 °C [-40 °F]
<b>Application Temperature</b>	-30 °C to +150 °C [-22 °F to +302 °F]
<b>Base Oil</b>	polyalphaolefines with additives (contains no silicones)
<b>Viscosity Base Oil</b> 20 °C [68 °F]	300 mm <sup>2</sup> /s
<b>Thickener</b>	metallic soaps, micro-PTFE-particles, PTFE-Spacer
<b>Durability</b>	good
<b>Drop Stability</b>	good
<b>Corrosion Resistance</b>	brass: very good steel: very good
<b>Compatibility with Plastics compatible</b>	ASA, PA66, PBT, PC, POM, POM (CL), PPO, ABS

### Comments:

Bearing Grease 117691 Spacer PTFE is based on different polyalphaolefines, which are adjusted with a special metal soap thickener to a soft consistency with a defined yield point, which reduces effects of creeping lubricants out of the bearings. Consists of a special thickener combination of micro-PTFE particles and PTFE Spacer which ensure a smooth sliding with no stick-slip effects even at high loads and low sliding speeds.

Contains no silicones!

P331a

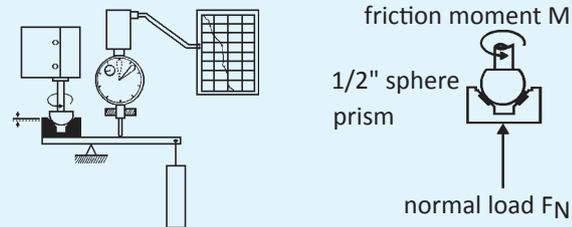
# Bearing Grease 117691 Spacer PTFE

Article No. TF1950

Precision Grease with Optimized Stick-Slip Behaviour

### Tribological Data:

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



Friction Behaviour				
dependent on sliding speed				
v (mm/s)	f	friction coefficient f		
		0.1	0.2	0.3
0	0.03	■		
20	0.03	■		
50	0.01	■		
200	0.13	■	■	

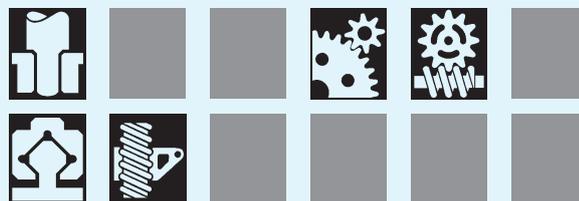
materials: steel/POM, load 3 N, 25 °C [77 °F]  
lubricant: Bearing Grease 117691 Spacer PTFE

Wear Behaviour					
comparison: dry and lubricated with Bearing Grease 117691 Spacer PTFE					
materials		wear (in mm)			
		0.01	0.03	0.1	0.3
St/PC:	TF1950 dry	■	■		
St/POM:	TF1950 dry	■	■		

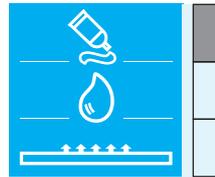
test parameters: load 30 N, distance 10 km, 25 °C [77 °F], v=28.1 mm/s

### Application:

For plastic/plastic and plastic/metal precision bearings in measuring devices and instruments. For the lubrication of radial bearings, helical gear trains, precision gears, linear guides, etc.



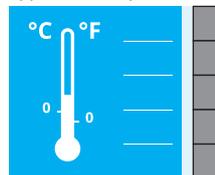
Product



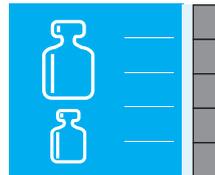
Bearing material



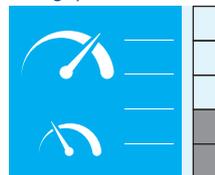
Application temperature



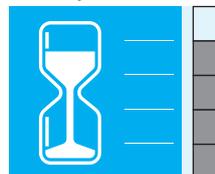
Bearing load



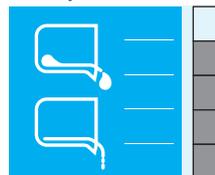
Sliding speed



Durability



Viscosity



Wetting

