Dr. Tillwich GmbH Werner Stehr

Product Specifications

Laboratory Data:

PTFE-Particles (magnification 22.000 fold)



Photo of Scanning Electron Microscope (1 µm)

Chemical Name Particle Size Agglomerates Settled Apparent Density	polytetrafluor ethylene ≈0.2 μm 2 up to 15 μm 255 - 600 g/l
Chemical Resistance Water Absorption Color Melting Point	very good none white +310 °C to +340 °C [+590 °F to +644 °F]
Durability Compatibility with Plastics Application Temperatures	excellent very good -80 °C bis +200 °C [-112 °F to +392 °F]

friction moment M 1/2" sphere **Bearing material** prism Metal normal load F_N Polymer Mineral **Friction Behaviour** dependent on sliding speed Application temperature friction coefficient f v (mm/s) f 0.4 0.2 0 0.02 20 0.09 50 0.14 200 0.23 materials: steel/PTFE, load 3 N, 25 °C [77 °F] Bearing load **Friction Behaviour** dependent on sliding speed and load 0.70 Sliding speed 0.3 GESCHW. 0.07

Tribological Data:

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

50.0 -⊳ LAST (N) steel/PTFE, load 0.5, 1 and 3 N, test parameters: v = 0 - 210 mm/s, 25 °C [77 °F]

0.03 0.0

Applications:

Comments:

Lowest friction coefficients at low sliding speed. Prevents from stick-slip! In contrast to conventionally lubricated sliding elements, dust and dirt isn't absorbed.

Micro-PTFE-Powder isn't toxic. lf used in accordance with the regulations no risks exist concerning the health. Do not inhale the PTFE dust.

At temperatures above 210 °C [410 °F] toxic vapours may be set free. In order to prevent from inhaling these vapours its contact with tobaccos and cigarettes should be avoided.

For all friction pairings, which must be free of oils and greases.

For slide ways, frictions, guidances, worm gears, etc. Suited for all kind of material, i. e. metals, glass, plastics, wood, elastomers, etc.



All information reflects our best knowledge. No responsibility is taken for printed data. Technical and chemical changes may occur without notice. We cannot be held liable for any use or application.

Certified acc. to ISO 9001

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P261b







Viscosity



Article No.: TG0110

Micro-PTFE-Powder