GLIDE-GEHR POM-10 PE® and GLIDE-GEHR POM-10 PE-TF®

Sliding-modified materials with excellent emergency running properties

GLIDE-GEHR POM-10PE® and **GLIDE-GEHR POM-10PE-TF®** belong to the group of sliding-modified plastics; their tribological behaviour (friction) has been optimized by incorporating solid lubricants.

Properties:

- Excellent emergency running properties
- High resistance to wear
- Low coefficient of friction
- Good dry running capability
- Good damping properties
- Optimized chemical and oxidative stability
- Good abrasion behaviour

Application examples:

- Sliding bearings
- Cam plates
- Chain guides
- Press pads
- Roller conveyors
- Mounting brackets
- Valve and tap parts …

Technical data:

	GLIDE-GEHR POM-10PE®	GLIDE-GEHR POM-10PE-TF®
Basic material	POM-C	POM-C
Core	10 % PE-UHMW	10 % PE-UHMW and 10 % PTFE
Approval (raw materials)	FDA	FDA
Colour	light blue	dark blue
HDT/A (°C)	120	-
Elastic modulus (MPa)	2160	2000
PV-value	18	20
Hot water resistance (temp. ≥ 60 °C)	yes	yes

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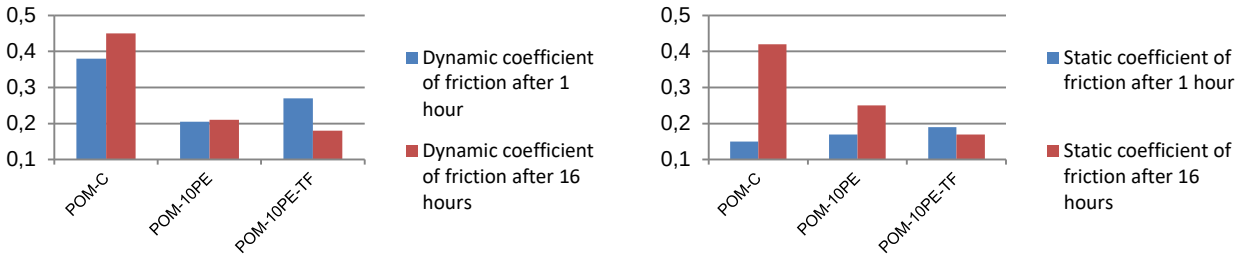
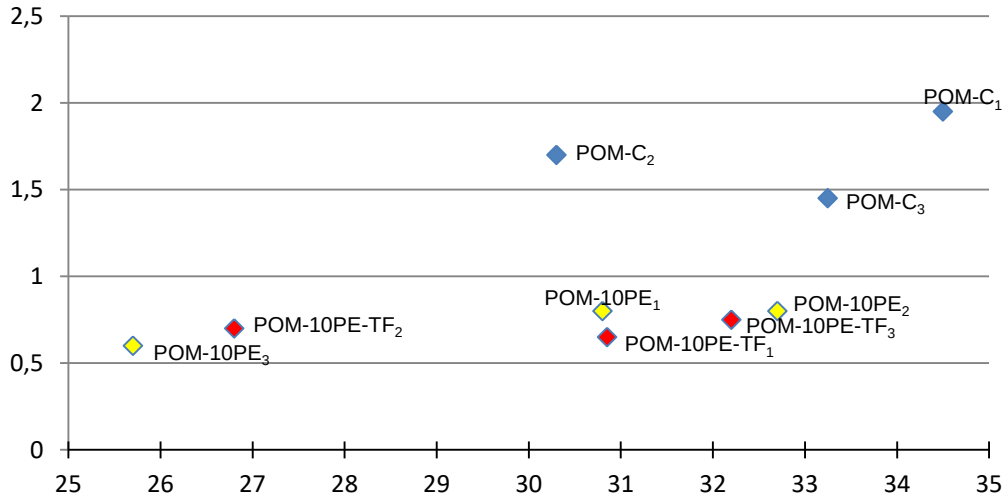
Coefficients of friction:



Contact disc temperature (°C, x-axis) vs. Specific wear coefficient (10-6 mm^3/Nm, y-axis)



wear parameters may change at higher temperatures; measurement taken upon completion of the test
test numbers 1, 2 and 3

Operating instructions:

When machining the previously annealed semi-finished products, thermal overload (plastics are generally poor heat conductors) must be avoided, as otherwise an uneven or scaly surface could form. Due to the incorporated solid lubricant particles, the production of very small surface roughness qualities is only possible to a limited extent. In joining technology, not only hot plate welding but also adhesive bonding with pressure-sensitive adhesives has proven successful, as the high chemical stability includes resistance to most solvent adhesives. The activation of the surfaces (corona treatment, primer application or etching) enhances the achievable strength.

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