HabiPLAST™ Material Data Sheet
TriboPlus TP40 for profiles

Material description

- Low friction Ultra High Molecular Weight Polyethylene (PEUHMW)
- Very low wear rate
- Less dusting, less microplastic compared to standard PEUHMW
- Higher speed and load limit (high PxV limit) compared to standard PEUHMW
- Resistant against cleaning agents typically used in food applications
- Halogen free and RoHS conform
- Silicon free
- No limitations regarding recycling or incineration
- Suitable for direct food contact (not for fatty food), see Food Certificates – DoC on www.Habasit.com

Code	Property	Colors
TP40-C+FG		Blue

Material properties

General	**Nominal value**
Code	TP40-C+FG
Color	blue
Density	0.93 g/cm³
Water absorption	< 0.01 %
Thermal	**Nominal value**
Temperature range	-70°C to +65°C -94°F to +150°F
Coeff. of linear thermal expansion a	0.20 mm/(m•K) 0.00133 in/(ft•°F)
Electrical	**Nominal value**
Volume resistivity	>10^{14} Ohm•cm
Surface resistivity	>10^{13} Ohm

Coefficient of friction and wear rate

Belt / Chain	**Friction (-)** [1]	**Wear rate** [2]
HabasitLINK® POM	0.17	A++
HabasitLINK® PP	0.16	A+
HabasitLINK® WHI	0.15	A++
HabasitLINK® PA	0.18	A+
HabasitLINK® PA+FRF	0.22	A++
HabasitLINK® PE	0.25	B
HabaCHAIN® DP	0.17	A++
HabaCHAIN® LF	0.16	A++
HabaCHAIN® PT	0.17	A+
HabaCHAIN® TS	0.15	A++
HabaCHAIN® NG	0.18	A++
Stainless Steel	0.13	A++

A++, Best performance
A+, Good performance
A, Standard combination
B, Acceptable but not recommended
C, Bad combination, do not use

[1] measured on a test conveyor with 1500 kg/m2 load, speed range 5 – 15 m/min, test distance 800 km, standard conditions
[2] evaluated from pin on disk test, total wear rate of pin and disk together, standard conditions

Habasit support for design and calculation
To assist the layout and calculation of Habasit plastic modular belt conveyors, Habasit provides additional documentation and instruments on request.

- Engineering Guide with further complementary details to the design and calculation of conveyors.
- Calculation Program to analyze the dimensioning and acting forces of a planned conveyor design.

For further information or additional documentation please contact Habasit.

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