HabiPLAST® Materialdatenblatt
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	Farbe
TP40-C+FG		Blau

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.

Disclaimer
Product Application Disclaimer (valid for ALL Habasit products and mentioned on all PDS)
This disclaimer is made by and on behalf of Habasit and its affiliated companies, directors, employees, agents and contractors (hereinafter collectively "HABASIT") with respect to the products referred to herein (the "Products"). SAFETY WARNINGS SHOULD BE READ CAREFULLY AND ANY RECOMMENDED SAFETY PRECAUTIONS BE FOLLOWED STRICTLY! Please refer to the Safety Warnings herein, in the Habasit catalogue as well as installation and operating manuals. All indications / information as to the application, use and performance of the Products are recommendations provided with due diligence and care, but no representations or warranties of any kind are made as to their completeness, accuracy or suitability for a particular purpose. The data provided herein are based on laboratory application with small-scale test equipment, running at standard conditions, and do not necessarily match product performance in industrial use. New knowledge and experience may lead to re-assessments and modifications within a short period of time and without prior notice.
EXCEPT AS EXPLICITLY WARRANTED BY HABASIT, WHICH WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, THE PRODUCTS ARE PROVIDED "AS IS". HABASIT DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE, ALL OF WHICH ARE HEREBY EXCLUDED TO THE EXTENT ALLOWED BY APPLICABLE LAW. BECAUSE CONDITIONS OF USE IN INDUSTRIAL APPLICATION ARE OUTSIDE OF HABASIT'S CONTROL, HABASIT DOES NOT ASSUME ANY LIABILITY CONCERNING THE SUITABILITY AND PROCESS ABILITY OF THE PRODUCTS, INCLUDING INDICATIONS ON PROCESS RESULTS AND OUTPUT.