

Material description

- Low friction Ultra High Molecular Weight Polyethylene (PE-UHMW)
- Good damping properties
- Good impact resistance
- · Resistant against cleaning agents typically used in food applications
- Not resistant against UV-Light

Material properties

Nominal value
PE40-B
black
0.94 g/cm ³
5 ● 10 ⁶ g/mol
< 0.01 %
Nominal value
-70°C to +65°C
0.20 mm/(m∙K)
Nominal value
10¹² Ohm∙cm
10 ¹² Ohm
Nominal value
~600 MPa
~20 MPa
≥200%
≥170 mJ/mm²
≥30 MPa

Coefficient of friction and wear rate

Belt / Chain	Friction (-) (1)	Wear rate ⁽²⁾
HabasitLINK® POM	0.23	В
HabasitLINK® PP	0.23	С
HabasitLINK® PA	0.31	A+
HabaCHAIN® DP	0.26	В
HabaCHAIN® LF	0.22	С
HabaCHAIN® PT	0.25	В
HabaCHAIN® TS	0.22	С
HabaCHAIN® NG	0.24	A
Stainless Steel	0.27	A+

A++, Best performance

A+, Good performance A, Standard combination

B, Acceptable but not recommended

C, Bad combination, do not use

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

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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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