

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

コード	Property	
PE40-G+FG		

Material properties

General	Nominal value	
Code	PE40-G+FG	
Color	green	
Density	0.93 g/cm ³	
Average molecular weight	5.0 • 10 ⁶ g/mol	
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 ¹⁴ Ohm	

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

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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