

HabiPLAST™ Material Data Sheet

PE03 for extruded tapes



Material description

- Good damping properties
- Resistant against cleaning agents typically used in food applications
- Not resistant against UV-Light

Material properties

General	Nominal value
Code	PE03-W PE03-G PE03-B
Color	natural white green black
Density	0.95 g/cm ³
Thermal	Nominal value
Temperature range	- 70°C to + 65°C
Coeff. of linear thermal expansion a	0.20 mm/(m•K)
Electrical	Nominal value
Volume resistivity	10 ¹⁶ Ohm•cm
Surface resistivity	10 ¹³ Ohm
Mechanical	Nominal value
Tensile modulus	1350 MPa
Tensile strength (yield)	28 Mpa
Tensile elongation (break)	≥50%

Coefficient of friction and wear rate

Belt / Chain	Friction (-) ⁽¹⁾	Wear rate ⁽²⁾
HabasitLINK® POM	0.26	B
HabasitLINK® DP	0.26	B

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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