

# HabiPLAST™ Material Data Sheet

## PE40+MO for tracks and machined parts



### Material description

- MoS<sub>2</sub> filled Ultra High Molecular Weight Polyethylene (PE-UHMW)
- Low wear and low friction in combination with steel belts or chains
- Not recommended in combination with POM, PP, PA belts or chains

コード	Property
PE40-B+MO	

### Material properties

General	Nominal value
Code	PE40-B+MO
Color	black
Density	0.95 g/cm <sup>3</sup>
Average molecular weight	5 • 10 <sup>6</sup> g/mol
Water absorption	<0.01 %
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 <sup>12</sup> Ohm•cm
Surface resistivity	>10 <sup>12</sup> Ohm
Mechanical	Nominal value
Tensile modulus	~580 MPa
Tensile strength (ultimate)	~18 Mpa
Tensile elongation (break)	≥200%
Charpy notched impact resistance	≥120 mJ/mm <sup>2</sup>
Ball hardness	≥40 MPa

### 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

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