

HabasisLINK® Material Data Sheet

Electrically conductive and flame-retardant Polypropylene PP+FC



Material description

- Developed especially for people mover applications
- Low electrical resistance, suitable for ESD protected areas (EPA)
- Low wear on plastic belt support and reduced wear on steel belt support
- Burning behavior classified as Cfl-S1 according DIN EN 13501 (comparable to former DIN 4102 B1)
- Low smoke density
- Halogen free and RoHS conform
- No limitations regarding recycling or incineration

Code	Material	Property	Density	Temperature range	Habasis colors
			g/cm ³		
PP+FC	Electrically conductive and flame-retardant Polypropylene	Thermoplastic material with a combination of low electrical resistance and very good flame retardant properties.	1.08	5°C to +80°C 40°F to +176°F	black

Thermal expansion	mm/m*°C	in/ft*°F
Coeff. of linear thermal expansion α	0.13	0.00087

Temperature factor C_T

Like standard PP

Chemical resistance

PP+FC has in general a good chemical resistance. Generally the belt should be kept clean to avoid to get a slippery surface. It is well resistant against motor, gear and hydraulic oil as much as gas, gas oil and the Diesel exhaust fluid AdBlue. Contamination with battery acid needs to be avoided.

Habasis support for design and calculation

To assist the layout and calculation of Habasis plastic modular belt conveyors, Habasis 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 Habasis.

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