

Material Properties

Special Belt Materials (Cont.)

Material	Code	Description	Food ¹⁾ approv.	Density g/cm ³	Temperature range
UV protected Polyoxymethylene (Acetal)	POM Code add. +UV	Thermoplastic material with improved resistance against UV radiation, especially for outdoor applications. The material has a high strength and low coefficient of friction. It is suitable for heavy duty applications and low temperatures.		1.42	wet conditions: -40°C to + 60°C <i>-40°F to + 140°F</i> dry conditions: -40°C to + 93°C <i>-40°F to + 200°F</i>
Reinforced Polyamide (Nylon)	PA Code add. +GF	Reinforced thermoplastic material with high strength. Suitable for heavy conveying applications at dry conditions and elevated temperatures. Material is specially modified to keep its good properties stable over a long time at elevated temperatures.	EU FDA	1.41	wet conditions: not recommended dry conditions: -40 °C to +145 °C (short-term +175 °C) <i>-40 °F to +293 °F</i> (short-term +347 °F)
Reinforced Polyamide (Nylon)	PA Code add. +HT	Reinforced thermoplastic material with very high strength and toughness. Suitable for heavy conveying applications at dry conditions and elevated temperatures. Material is specially modified to keep its good properties stable over a long time at elevated temperatures.		1.41	wet conditions: not recommended dry conditions: -40 °C to +170 °C (short-term +200 °C) <i>-40 °F to +338 °F</i> (short-term +392 °F)
Reinforced non-stick Polyamide (Nylon)	PA Code add. +HN	Reinforced non-stick thermoplastic material with high strength. Suitable for heavy conveying applications at dry conditions and elevated temperatures. Material is specially modified to keep its good properties stable over a long time at elevated temperatures.		1.41	wet conditions: not recommended dry conditions: -40 °C to +170 °C (short-term +200 °C) <i>-40 °F to +338 °F</i> (short-term +392 °F)
Impact and cut resistant Polyamide (Nylon)	PA Code add. +IM	Tough thermoplastic material with good strength and fatigue resistance. Suitable for heavy conveying applications with high impact load: The belt properties and dimensions change with moisture absorption. The material can replace impact resistant acetal in impact intensive applications, but is more susceptible to cuts. In wet environment, dimension change needs to be considered.	EU FDA	1.08	wet conditions: -46 °C to +60 °C <i>-50 °F to +140 °F</i> dry conditions: -46 °C to +80 °C <i>-50 °F to +176 °F</i>
Polyamide 612 (Nylon)	PA 612	Tough thermoplastic material with good strength and fatigue resistance: The belt properties include good dimensional stability, low moisture absorption and high level of heat resistance.	FDA		wet conditions: not recommended dry conditions: -40 °C to +118 °C (short term 135 °C) <i>-40 °F to +245 °F</i> (short term 275 °F)

¹⁾ The Food approval statement refers to the HabasitLINK product range.
For detailed food approval, please contact Habasit.