

# Material Properties

## Special Belt Materials (Cont.)

Material	Code	Description	Food <sup>1)</sup> approv.	Density g/cm <sup>3</sup>	Temperature range
HabaGUARD® Polypropylene	PP Code add. +H15	Thermoplastic material containing antimicrobial additive, with excellent chemical resistance to acids and alkalines. * High impacts below 10 °C (50 °F) must be avoided.	FDA	0.9	+5 °C to +105 °C (*) +40 °F to +220 °F (*)
HabaGUARD® Polyethylene	PE Code add. +H15	Thermoplastic material containing antimicrobial additive, well suited for low temperatures and high impact applications. Excellent chemical resistance against acids and alkalines. * Below -40 °C (-40 °F), thermal belt shrinkage requires a sprocket pitch diameter adaptation.	FDA	0.94	-70 °C to +65 °C (*) -94 °F to +150 °F (*)
Detectable Polypropylene	PE Code add. +DE	Thermoplastic material with a special additive, which makes the material very well detectable (X-ray and metal detectors). Well suitable for low temperature and/or high impact applications. Excellent chemical resistance to acids and alkalines. * Below -40 °C (-40 °F), thermal belt shrinkage requires a sprocket pitch diameter adaptation.	EU FDA	1.15	-70 °C to +65 °C (*) -94 °F to +150 °F (*)
Antistatic Polyoxymethylene (Acetal)	POM Code add. +AS	Thermoplastic material with reduced electrical surface resistance to reduce dust accumulation and belt charge-up. Suitable for heavy duty applications and low temperatures. Material has high strength, low coefficient of friction and scratch-resistant surface.		1.42	wet conditions: not recommended  dry conditions: -40 °C to +93 °C -40 °F to +200 °F
Detectable Polyoxymethylene (Acetal)	POM Code add. +DE	Thermoplastic material with a special additive, which makes the material very well detectable (X-ray and metal detectors). The material has a good chemical resistance against oil and alkalines, but not suitable for long term contact with high concentration of acids and chlorine.	EU FDA	1.53	wet conditions: -40 °C to +60 °C -40 °F to +140 °F  dry conditions: -40 °C to +93 °C -40 °F to +200 °F
Electrically conductive Polyoxymethylene (Acetal)	POM Code add. +EC	Thermoplastic material with a low electrical surface and volume resistance. Electrical surface resistivity $\rho_s$ below 50'000 Ohm/sq (DIN/EN 1637). Material has a high strength and low coefficient of friction. Suitable for heavy duty applications and low temperatures.		1.42	dry conditions: -40 °C to +93 °C -40 °F to +200 °F

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