

# Material Properties

## Special Belt Materials (Cont.)

Material	Code	Description	Food <sup>1)</sup> approv.	Density g/cm <sup>3</sup>	Temperature range
Super High Temperature	ST	Reinforced thermoplastic material with very good heat and hydrolysis resistance. Suitable for light conveying applications at elevated temperatures. Material is specially modified to keep its good properties stable over a long time at elevated temperatures. Flammability UL94 V0, ISO-340.	EU FDA	1.65	wet conditions: on request  dry conditions: 0 °C to +200 °C (short-term +240 °C) <i>+32 °F to +392 °F</i> (short-term +464 °F)
Flame retardant Polybutylene-terephthalate	PBT  Code add. +FR	Flame retardant thermoplastic material with excellent stiffness and hardness. Suitable for conveying applications with special demand on low-flammability. Material has good friction and wear properties by showing a good dynamic long-term behavior. Flammability UL94 V0, ISO-340.		1.47	wet conditions: -40 °C to +60 °C <i>-40 °F to +140 °F</i>  dry conditions: -40 °C to +130 °C (short-term +150 °C) <i>-40 °F to + 266 °F</i> (short-term + 302 °F)
Thermoplastic elastomer	TPE	Soft thermoplastic material with a hardness of 50 or 65 Shore A. Material has high friction values and good abrasion resistance. Suitable for conveying applications where a high grip between belt and product is required. Used for GripTop modules. * TPE with 65 Shore A is not for direct food contact	FDA*	1.12	-40 °C to +60 °C <i>-40 °F to +140 °F</i>
Flame retardant thermoplastic elastomer	TPE  Code add. +FR	Flame retardant soft thermoplastic material with a hardness of 50 shore A. Material has high friction values and good abrasion resistance. Suitable for conveying applications where a high grip between belt and product is required. Used for GripTop modules. Flammability UL94 V0, ISO-340.		1.25	-40 °C to +60 °C <i>-40 °F to +140 °F</i>
Thermoplastic elastomer	TPV	Soft thermoplastic material with a hardness of 55 or 72 Shore A. Material has high friction values and good abrasion resistance. Suitable for conveying applications where a high grip between belt and product is required. Used for GripTop modules.	FDA	0.96	-40 °C to +71 °C <i>-40 °F to +160 °F</i>

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