

# Material Properties

## Materials for Wearstrips and Guides

Material	Code	Description	Density g/cm <sup>3</sup>	Temperature range
Ultra high molecular weight Polyethylene	UHMW PE (PE 4000)	For heavy conveying applications (high loads); offers reduced wear and longer lifetime. Habasit offers standard guiding profiles and wearstrips (see page xxx).	0.94	-70 °C to +65 °C <i>-94 °F to +150 °F</i>
High molecular weight Polyethylene	HMW PE (PE 1000)	For quite heavy conveying applications (relatively high loads) offers almost the same features of UHMW PE but with slightly harder surface.	0.95	-70 °C to +65 °C <i>-94 °F to +150 °F</i>
Medium molecular weight Polyethylene	HDPE (PE 500)	Low cost material suitable for most applications with moderate load and low speed. Not suitable for static nosebars.	0.95	-70 °C to +65 °C <i>-94 °F to +150 °F</i>
Cast Polyamide 66 with incorporated Polymer and/or solid lubricating additives (e. g. PA6+MoS2)	Lubricated PA	Cast material with high molecular weight, high strength and very high wear resistance. Due to the incorporated lubricating additives the friction values are very low, and due to the high molecular weight the material is very tough and therefore very abrasion resistant. Suitable for heavy applications and high speeds. Material is hygroscopic (water adsorption should be taken into account).	1.13	-46 °C to +120 °C <i>-50 °F to +248 °F</i>