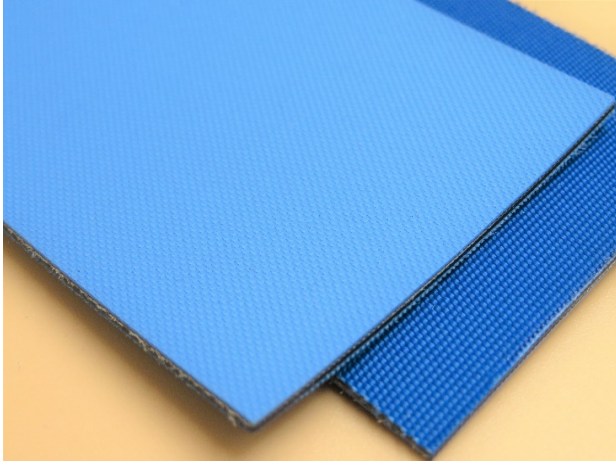


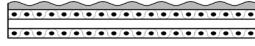
Technical Datasheet	PolyBelt™	Power Transmission and Conveyor Belt
	Belt type	GMTA-500
		PB-232 Ver.3

Applications

- Light duty conveyor
- Machine tool

Construction



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<p>Dimensions</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Width/Roll (max.)</td><td style="text-align: right; padding: 2px;">305mm</td></tr> <tr><td style="padding: 2px;">Width/Endless (max.)</td><td style="text-align: right; padding: 2px;">300mm</td></tr> <tr><td style="padding: 2px;">Length (max.)</td><td style="text-align: right; padding: 2px;">105m</td></tr> <tr><td style="padding: 2px;">Total thickness</td><td style="text-align: right; padding: 2px;">1.9mm</td></tr> <tr><td style="padding: 2px;">Weight</td><td style="text-align: right; padding: 2px;">2.0 Kg/m²</td></tr> </table> <p style="font-size: small;">Please contact Nitta if you need other dimensions.</p> <p>Regulatory compliance</p> <p>RoHS(2011/65/EC, (EU)2015/863)</p> <p>Features</p> <ul style="list-style-type: none"> Antistatic Superior abrasion resistance Oil resistance Slider bed Roller bed 	Width/Roll (max.)	305mm	Width/Endless (max.)	300mm	Length (max.)	105m	Total thickness	1.9mm	Weight	2.0 Kg/m ²	<p>Properties</p> <p>Minimum pulley diameter</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Power Transmission Application</td><td style="padding: 2px;">Skiver</td><td style="text-align: right; padding: 2px;">50mm</td></tr> <tr><td style="padding: 2px;">Conveyor Application</td><td style="padding: 2px;">Skiver</td><td style="text-align: right; padding: 2px;">40mm</td></tr> </table> <p>Dynamic properties</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Standard elongation</td><td style="text-align: right; padding: 2px;">1.0%</td></tr> <tr><td style="padding: 2px;">Tension after relaxation at 1.0%</td><td style="text-align: right; padding: 2px;">3.8N/mm</td></tr> <tr><td style="padding: 2px;">Initial tension at 3.0%</td><td style="text-align: right; padding: 2px;">22.8N/mm</td></tr> <tr><td style="padding: 2px;">Tension after relaxation at 3.0%</td><td style="text-align: right; padding: 2px;">11.4N/mm</td></tr> <tr><td style="padding: 2px;">Operating temperature range</td><td style="text-align: right; padding: 2px;">-20~80°C</td></tr> <tr><td style="padding: 2px;">Operating temperature range*</td><td style="text-align: right; padding: 2px;">-20~80°C</td></tr> </table> <p style="font-size: x-small; text-align: center;">*When under continuous use</p>	Power Transmission Application	Skiver	50mm	Conveyor Application	Skiver	40mm	Standard elongation	1.0%	Tension after relaxation at 1.0%	3.8N/mm	Initial tension at 3.0%	22.8N/mm	Tension after relaxation at 3.0%	11.4N/mm	Operating temperature range	-20~80°C	Operating temperature range*	-20~80°C	<p>Tensile properties</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Tensile strength</td><td style="text-align: right; padding: 2px;">150N/mm</td></tr> <tr><td style="padding: 2px;">Elongation at break</td><td style="text-align: right; padding: 2px;">20%</td></tr> <tr><td style="padding: 2px;">Maximum allowable tension</td><td style="text-align: right; padding: 2px;">22.8N/mm</td></tr> <tr><td style="padding: 2px;">Maximum allowable elongation</td><td style="text-align: right; padding: 2px;">3.0%</td></tr> </table> <p>Coefficient of friction</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Top</td><td style="padding: 2px;">vs. Steel</td><td style="text-align: right; padding: 2px;">0.5~0.6</td></tr> <tr><td></td><td style="padding: 2px;">vs. Paper</td><td style="text-align: right; padding: 2px;">0.6~0.7</td></tr> <tr><td style="padding: 2px;">Bottom</td><td style="padding: 2px;">vs. Steel</td><td style="text-align: right; padding: 2px;">0.2~0.3</td></tr> <tr><td></td><td style="padding: 2px;">vs. Paper</td><td style="text-align: right; padding: 2px;">0.3~0.4</td></tr> <tr><td></td><td style="padding: 2px;">vs. Lagged pulley</td><td style="text-align: right; padding: 2px;">0.4~0.6</td></tr> <tr><td></td><td style="padding: 2px;">vs. POM (resin)</td><td style="text-align: right; padding: 2px;">0.2~0.4</td></tr> </table>	Tensile strength	150N/mm	Elongation at break	20%	Maximum allowable tension	22.8N/mm	Maximum allowable elongation	3.0%	Top	vs. Steel	0.5~0.6		vs. Paper	0.6~0.7	Bottom	vs. Steel	0.2~0.3		vs. Paper	0.3~0.4		vs. Lagged pulley	0.4~0.6		vs. POM (resin)	0.2~0.4
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