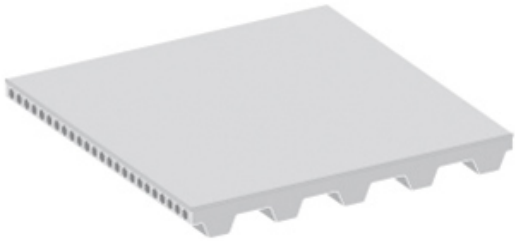
forbo MOVEMENT SYSTEMS

siegling proposition
timing belts

Coating Data Sheet



Designation	
Coating type description OLD	Teflon
Coating type description NEW	PTFE

Design	
Coating Material	Polytetrafluoroethylene (PTFE)
Colour	Grey
Surface pattern	Glossy

Technical data	
Hardness [Shore(A)]	
Density [kg/m³]	
Coating thickness min. [mm]	0.3
Coating thickness max. [mm]	0.3
d factor *	300
Minimum pulley diameter D_{min} (approx.) [mm]	[d factor] x [selected coating thickness]
Minimum operating temperature [°C]	-200
Maximum operating temperature [°C]	260

Coefficient of static friction	
against PE foil	0.11
against wood	0.12
against sheet glass	0.11
against cardboard	0.16
against aluminium	0.11
against steel sheet	0.07

The physical data in this data sheet is approximate, can alter depending on production environments and was established at standard ambient conditions (23°C/73°F, 50% relative humidity) in accordance with DIN 50014/ISO 554. Fluctuations in climate can cause variations. Temperature range of polyurethane (PU) timing belt base material -5/+80 °C (permanent). See our brochure “Chemical resistance” which shows the resistances of Siegling Proposition (PU) timing belt base material.

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Properties

Electrostatic properties	non-conductive
Wear resistance	high
Compressibility	No
Product release properties	high release
Cleanability	excellent

Chemical restistance

General chemical resistance to	Generic fats and oils

Special Fabrication

Sanding	No
Milling	No
Punching	Yes

Applications

Food packaging, Pharmaceutical industry, Conveying of hot and sticky goods

General remarks

Excellent release properties and cleanability. Low friction, accumulation possible. Temperature range limited by PU timing belt material.

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