

ANTISTATIC TIMING BELTS

Conductive solutions for BRECO® and BRECOFLEX®
timing belt applications

CONTROL ELECTROSTATIC CHARGE

Friction in belt drives can generate electrostatic charge. Conductive timing belts help dissipate this charge, reducing the risk of discharge affecting sensitive electronic components.

Choose the conductive solution

MATERIAL / SURFACE	REPORTED RESISTANCE
BRECO-TPU-AS1	$< 10^8 \Omega$
BRECO-TPU-AS2	Lower resistance than AS1*
BRECO-TPU-AS7	$< 10^4 \Omega$
Antistatic PA backing	Approx. $10^5 \Omega$

*The source does not specify a numerical value for AS2.

Two approaches. One application focus.

Conductive TPU compounds provide conductivity within the belt material. AS7 offers particularly uniform resistance along and across the belt. Alternatively, a conductive backing can be applied to the teeth and/or belt back. Antistatic PA backing is used for accumulation conveyors handling electronic components and has a friction coefficient of approximately 0.3.

Discuss your application with Aratron

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Source: Mulco-Europe EWIV, "Safe transport of electronic components", 20 January 2023.
Technical summary by Aratron. Resistance figures refer to the materials or backing described in the source.