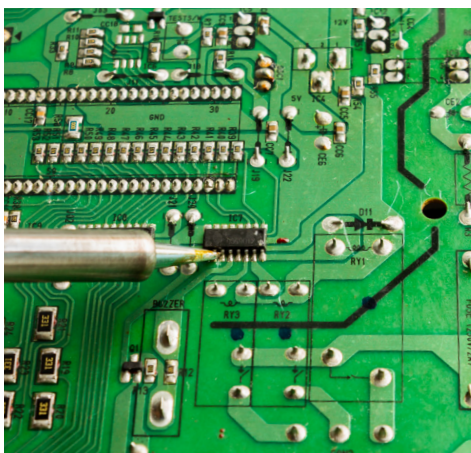


# Ropanyl ESD belt for the Electronics Industry



Ammeraal Beltech is a leading manufacturer of process and conveyor belting with an established reputation for developing innovative solutions for belting applications.

**Application knowledge has enabled Ammeraal Beltech to develop a belt specifically for the Electronics Industry: for the conveying of electrostatic discharge sensitive components.**

Conveying sensitive electronic components is a delicate process. The micro-flash of an electrostatic discharge (ESD) can easily damage a small electronic component or connection. Therefore, the intensification of an electrostatic charge in a conveyor belt used for transporting such components must be avoided.

With this in mind, Ammeraal Beltech developed a new ESD-safe conveyor belt. This sophisticated product, when fitted on a suitable and adequately earthed conveyor, will not suffer from possible electrostatic discharge.

## Main features

- Low electrical surface resistance of the top and bottom side
- Low electrical volume resistance of the full belt thickness
- Flexible belt carcass
- Wear-resistant top cover

## Benefits

- ESD-safe, prevents product damage from electrostatic discharge
- No harmful ESD affecting operators/workers
- Nonpolluting, closed belt top surface



## ESD-Safe used to convey sensitive electronic components

Manufacturing and assembly of circuit boards, electronic components, cell phones, televisions, radios, printers, computers and all the other electronic devices that one can think of is often a combination of fully automated and manual processes. Between the different stages of such processes, electronic components are transported only on conveyor belts that have been specially designed, tested and approved for such applications. Ammeraal Beltech has developed the highly conductive Ropanyl ESD belt particularly for the use in the Electronics Industry.



The highly conductive Ropanyl ESD belt has a specifically low electrical resistance, all measured according to ISO 21178:

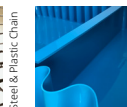
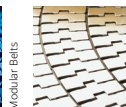
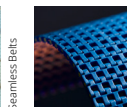
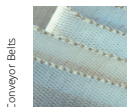
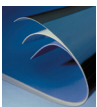
- 4 Electrical surface resistance of the top surface is less  $3 \cdot 10^8 \text{ Ohm}$
- 4 Electrical surface resistance of the bottom surface is  $3 \cdot 10^8 \text{ Ohm}$
- 4 Volume resistance is less than  $1 \cdot 10^9 \text{ Ohm}$



### Technical data

Item	Description	Thickness [mm]	Minimum pulley flexing   back flexing [mm]	Electrical resistance according ISO21178		
				top side surface $\Omega$	bottom side surface $\Omega$	volume $\Omega$
571019	Ropanyl EM 8/2 00+02 black M1 / ESD	1.5	20   40	$< 3 \cdot 10^8$	$< 3 \cdot 10^8$	$< 1 \cdot 10^9$

M1= Fine matt finish



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