TECHNICAL DATA SHEET

OKCHN538

3-ply PU food-grade conveyor belt · Green smooth · 2.20 mm
Low-friction conveying surface · Metal-detectable · Antistatic

ORIONTEK
ENGINEERING GOOD SOLUTIONS

Manufactured in Europe to Oriontek specification. Supplied, fabricated and installed by Oriontek.

01 CONSTRUCTION

CONVEYING	Material		**Polyurethane (TPU)**
	Thickness	**0.30** mm	*0.012 in.*
	Surface pattern		**Smooth**
	Colour		**Green**
	Coefficient of friction		**LF — low friction**
CARCASS	Material		**Polyester (PET)**
	Number of plies		**3**
	Weft type		**Rigid**
DRIVING	Material		**Fabric, polyurethane (TPU) impregnated**
	Surface pattern		**Fabric**
	Colour		**Grey**

02 TECHNICAL SPECIFICATIONS

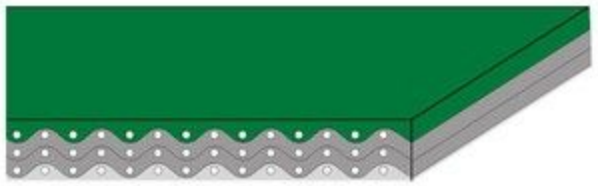
Total thickness	**2.20**	mm	*0.09*	*in.*
Weight	**2.40**	kg/m²	*0.49*	*lbs/sq.ft*
Elongation at 1%	**10**	N/mm	*57.0*	*lbs/in.*
Max. admissible pull	**20**	N/mm	*114.2*	*lbs/in.*
Temperature — minimum (1)	**–20**	°C	*–4*	*°F*
Temperature — maximum (1)	**100**	°C	*212*	*°F*
Max. production width (3)	**2000**	mm	*79*	*in.*

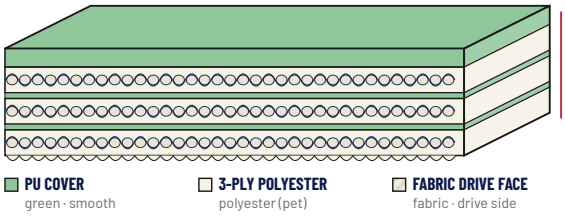
03 MINIMUM RADIUS / DIAMETER (2)

■ Bending roller, min. diameter	**60**	mm	*2.36*	*in.*
■ Counter-bending roller, min. dia.	**80**	mm	*3.15*	*in.*

04 FRICTION — DRIVING SURFACE

■ Raw steel sheet	**0.20** [-]
■ Laminated plastic / wood	**0.25** [-]
■ Steel roller	**0.20** [-]
■ Rubberized roller	**0.30** [-]





CROSS-SECTION — NOT TO SCALE

TOTAL 2.20 MM / 0.09 IN.

05 PERFORMANCE & HANDLING

Humidity influence	NO
Suitable for metal detector	YES
Permanently antistatic, dynamic (UNI EN ISO 21179)	YES
Static conductivity (UNI EN ISO 284)	NO
Conveying on skid bed	YES
Conveying on rollers	YES
Skid bed on top *and* return	NO
Troughed conveying	NO
Curved conveyor	NO
Swan-neck conveying	YES
Inclined conveying	NO
Accumulation belts	YES
Chemical resistance rating	5

06 COMPLIANCE

- REACH EC 1907/2006 and amendments
- EC 1935/2004 and amendments
- EC 2023/2006 and amendments
- EU 10/2011, 2024/3190 and amendments
- FDA — U.S. Food and Drug Administration

07 APPROVED APPLICATIONS

- Textile — printing blankets
- Plastic materials moulding
- Packaging

Notes: R = high transversal stability

Oriontek service: supplied endless-joined, open-length or fabricated with profiles, sidewalls, cleats and V-guides. Onsite splicing available.

NOTES (1) Operating the belt at its limit values may reduce service life. (2) Minimum radius and diameter values depend on the joint type specified by Oriontek. (3) Maximum production width 2000 mm / 79 in.; wider widths require prior authorization.

DISCLAIMER Values are laboratory results measured at +23 °C and 50% relative humidity. They describe the product as tested and do not necessarily reflect conditions of industrial use, nor do they guarantee suitability for a specific application. The customer