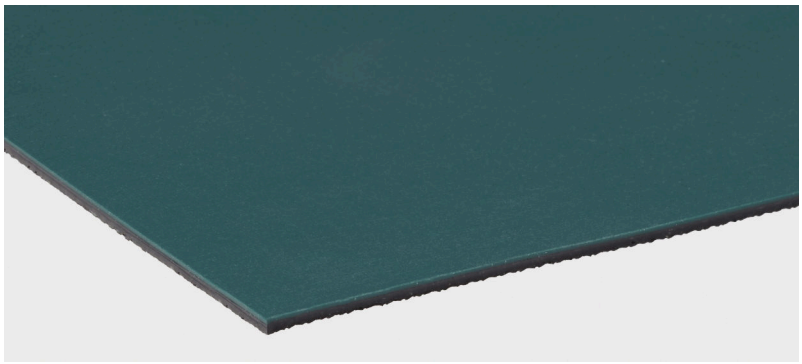
Product Data Sheet

UR 20U-15 HC+ Pro GSTR/FSTR black/green



Art. No.: 855670 M 1:2

Applications

Electronic Industry	Conveying of electronic goods; Conveying of photovoltaic wafers; General conveying purpose of photovoltaics ; Screen printing (soldering printing) on photovoltaics
Application Group	Drag Belts; Machine Tapes

Order information

Article number	855670
Standard delivery width	600 mm / 23.62 in
Maximal delivery width (without longitudinal seam) on request	1200 mm / 47.24 in

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Construction

Surface material top face	Ultra High Grip
Surface pattern	Fine texture
Color	Green
Surface material underside	Polyurethane
Surface pattern	Coarse texture
Color	Black
Tension member material	Polyurethane, elastic

Technical data

Total thickness	1.45 mm ± 0.1 0.057 in ± 0.004
Weight	1.45 kg/m² 0.297 lbs/ft²
Fw‘ at 1 % elongation at fitting	0.24 N/mm / 1.37 lbf/in
Relaxed specific shaft load at 1 % elongation at fitting and 180° arc of contact in N/mm belt width.	
k1% value relaxed	0.12 N/mm / 0.69 lbf/in
Recommended Elongation at fitting min.	3 %
Recommended Elongation at fitting max.	8 %
Depending on the application, different elongation at fitting might be necessary. Please enquire.	
Friction coefficient of top face against steel panel according to internal test instruction	2
Friction coefficient of underside against steel panel according to internal test instruction	0.9
Permissible operating temperature	-20/60 °C, for a short time 70 °C -4/140 °F, for a short time 158 °F

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Properties

Troughable	Yes
Suitable for accumulation	No
Particular surface properties	▸ Ultra High Grip
Highly elastic	Yes
Not susceptible to shocks	Yes
One or two sides with non-marking properties for sensitive goods	Yes
Very high abrasion-resistant	Yes
Not sensitive to climatic fluctuation	Yes

Electrostatic properties

Highly conductive+	Belt material with electrically conductive antistatic agents. Conductive top face and conductive driving face, in addition also conductive in vertical direction. Resistance of the conductive surfaces (ROA) < 3 x $10^8\Omega$, vertical resistance (RD) < 1 x $10^9\Omega$. Measurement according DIN EN ISO 21178.

Fabrication

Belt edge sealing	No
Profiles on top face	On request
Profiles on underside	On request

Minimum drum diameter

Mechanical fasteners	
Z- splice - 35 x 11,5 mm, counter-bending	10 mm / 0.4 in
Z- splice - 70 x 11,5 mm, counter-bending	10 mm / 0.4 in
Butt joint, counter-bending	15 mm / 0.6 in
Mirror welding splice, counter-bending	15 mm / 0.6 in

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Remarks

► Suitable for short center distances with L/W < 1. Extreme small pulley diameter possible.
► In some applications, the belt can be operated at an elongation at fitting below the recommended minimum..

Flash Star (TM) belts support an ESD compliant sytem due to their excellent conductivity in all three spatial directions. Undesired effects could be avoided, e. g. adhesion between the conveyed goods, pollution, electrostatic shocks.

The physical data in this data sheet is approximate, can alter depending on production environments. The belts should be stored under normal ambient conditions climate (23 °C, 50 % humidity) as per DIN EN ISO 291. Fluctuations in climate can cause variations. See our brochure “Compendium Flat Belts” no. 333 which shows the types of belts that can be supplied and the manufacturing tolerances. Customised types require written confirmation.

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