CHIORINO AFFILIATED COMPANIES

Australia
CHIORINO AUSTRALIA PTY. Ltd. - Brisbane
Tel. +61-7-3274 1900
sales@chiorino.com.au
www.chiorino.com.au

Belgium
CHIORINO BELEUX B.V. - Utrecht,
The Netherlands
Tel. +31-30-2413060
chiorino@chiorino.nl
www.chiorino.nl

Brazil
CHIORINO LIMITADA - São Paulo
Tel. +55-11-2584-1512
chiorino@chiorino.com.br
www.chiorino.com.br

Byelorussia
CHIORINO K - Minsk
Tel. +375-17-2804578
general@chiorino.ru
www.chiorino.ru

China
CHIORINO ASIA Ltd.
Hong Kong
Tel. +852-397-10818
info@chiorino.asia
www.chiorino.asia

CHIORINO LAWSON OFFICE, Shanghai
Tel. +86-21-37831019
info@chiorino.cn
www.chiorino.cn

France
CHIORINO SAS - Lagny, Paris
Tel. +33-1-64340705
chiorino.paris@chiorino.fr
www.chiorino.fr

Germany
CHIORINO GmbH - Mainz
Tel. +49-6161-55449-0
info@chiorino.de
www.chiorino.de

Hungary
CHIORINO Kft. - Szegetszentmiklós,
Budapest
Tel. +36-24-525930
mail@chiorino.hu
www.chiorino.hu

India
CHIORINO INDIA - Salcete Goa
Tel. +918-322-782454
info@chiorino.in
www.chiorino.in

Italy
CHIORINO PARMA s.r.l. - Parma
Tel. +39-0521-292236
chiorinoparma@chiorino.com

CHIORINO VENETO s.r.l. - Colle Umberto
Tel. +39-0438-430460
chiorinoveneto@chiorino.com

Poland
CHIORINO Sp. z o.o. - Bydgoszcz
Tel. +48-52-3487008
chiorino@chiorino.com.pl
www.chiorino.com.pl

Portugal
CHIORINO PORTUGAL, LDA
Alfaia Valongo, Porto
Tel. +35-1-2664442
 geral@chiorino.pt

Romania
CHIORINO Frl. - Cluj Napoca
Tel. +40-264-320977
chiorino@chiorino.ro
www.chiorino.ro

South Africa
CHIORINO SOUTH AFRICA (PTY) LTD.
Durban
Tel. +27-31-7925500
sales@chiorino.co.za
www.chiorino.co.za

Spain
CHIORINO IBÉRICA S.A.U. - Rubi, Barcelona
Tel. +34-93-5890480
chiorino@chiorino.es
www.chiorino.es

United Kingdom and Ireland
CHIORINO U.K. Ltd. - Featherstone
Tel. +44-1977-691880
sales@chiorino.co.uk
www.chiorino.co.uk

U.S.A.
CHIORINO INC. - Newark, DE
Tel. +1-302-292-1906
info@chiorino.us
www.chiorino.us

CHIORINO DISTRIBUTORS

Argentina
Armenia
Azerbaijan
Belgium
Bohemia
Brazil
Chile
Colombia
Costa Rica
Croatia
Cypres

Czech Republic

Denmark
Egypt
Estonia
Finland
Georgia
Guatemala

Herzegovina
Indonesia
Israel
Kazakhstan
Kingzitan
Latvia
Lithuania
Macedonia
Mexico
Moldova
Russia
Saudi Arabia

Serbia
Slovak Republic
Slovenia
Sweden

Tajikistan

Thailand

Turkey

Turkmenistan

Ukraine

Uzbekistan

Membrane SOLARplus

Your partner for process solution

HEADQUARTERS

AND PRODUCTION PLANTS

CHIORINO S.p.A.

Via S. Agata, 9
I-13900 Biella, Italy
Tel. +39 015 8489 1
Fax +39 015 849 61 61
chiorino@chiorino.com
www.chiorino.com

EMAS
UNI EN ISO 9001:2008
UNI EN ISO 14001:2004

ENGINEERING ADVICE

ON-SITE INSTALLATION SERVICE
AFTER SALES SUPPORT

Industry: 005 Issue: 01 - 09 2013
Membrane for the lamination of photovoltaic panels

CHIORINO, a leading company in the field of conveyor and transmission belts, is specialized in the production of ultra resistant membranes for the lamination of photovoltaic panels.

**CHIOplus**
- High chemical resistance

The special layer CHIOplus protects the Silicone membrane from chemical attacks.

**Gas**

The special layer CHIOplus protects the membrane from ageing resulting in increased lamination cycles.

**SOLARplus**
- Excellent price/value ratio

SOLARplus provides a long and reliable service life resulting in an excellent price/value ratio.

### Product features
- Long life with the special layer CHIOplus
- High resistance against gas released from EVA films
- Excellent dimension stability

### Customer benefits
- High productivity due to increase number of lamination cycles
- Costs saving
- Excellent price/value ratio

### Technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>Side in contact with the membrane</th>
<th>Side in contact with the upper plate</th>
<th>Total thickness</th>
<th>Weight</th>
<th>Temperature resistance</th>
<th>Max. prod. width</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLARplus</td>
<td>CHIOplus smooth</td>
<td>Silicone smooth</td>
<td>50 mm</td>
<td>3.3 kg/m²</td>
<td>-50°C to +175°C</td>
<td>1950 mm</td>
</tr>
</tbody>
</table>

(1) SOLARplus membranes are produced in a max. width of 1950 mm. However, wider sizes can be supplied with a longitudinal seam while still maintaining high strength and perfect evenness.

The technical data have been formulated under normal environment conditions. They are subject to alteration without notice.

### Membrane for the lamination of photovoltaic panels

CHIORINO, a leading company in the field of conveyor and transmission belts, is specialized in the production of ultra resistant membranes for the lamination of photovoltaic panels.
Membrane for the lamination of photovoltaic panels

CHIORINO, a leading company in the field of conveyor and transmission belts, is specialized in the production of ultra resistant membranes for the lamination of photovoltaic panels.

**Product features**

- Long life with the special layer CHIOplus
- High resistance against gas released from EVA films
- Excellent dimension stability

**Customer benefits**

- High productivity due to increase number of lamination cycles
- Costs saving
- Excellent price/value ratio

---

### Technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>Side in contact with the photovoltaic panel</th>
<th>Side in contact with the upper plate</th>
<th>Total thickness</th>
<th>Weight</th>
<th>Temperature resistance</th>
<th>Max. prod. width</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>material surface colour</td>
<td>material surface colour</td>
<td>mm</td>
<td>kg/m²</td>
<td>°C</td>
<td>°C</td>
</tr>
<tr>
<td>SOLARplus</td>
<td>CHIOplus smooth</td>
<td>Silicone smooth</td>
<td>50</td>
<td>3.0</td>
<td>-50 to +175</td>
<td>1950</td>
</tr>
</tbody>
</table>

(1) SOLARplus membranes are produced in a max. width of 1950 mm. However, wider sizes can be supplied with a longitudinal seam while still maintaining high strength and perfect evenness.

The technical data have been formulated under normal environment conditions. They are subject to alteration without notice.

---

### Photovoltaic panels laminator scheme

- **Upper platen mobile**
- **Lower platen**
- **Membrane SOLARplus CHIORINO**
- **PTFE layer**
- **PHOTOVOLTAIC PANEL**

---

### High chemical resistance

The special layer CHIOplus protects the Silicone membrane from chemical attacks.

---

### Increased lamination cycles

The special layer CHIOplus protects the membrane from ageing resulting in increased lamination cycles.

---

### Excellent price/value ratio

SOLARplus provides a long and reliable service life resulting in an excellent price/value ratio.