



GREENHOUSE FABRIC MEMBRANE



GREENHOUSE FABRICS

Discovering the perfect greenhouse fabric for your crops just got simpler with ECP's Claro™ collection.

Claro stands out as a cutting-edge, lightweight woven polyethylene fabric tailored specifically for the greenhouse industry. Exceptionally clear, Claro offers a range of HDPE products that are anti-fog, sulphur-resistant and tear resistant. Claro Opaque is our light deprivation fabric with true black out properties.

Where performance and longevity of greenhouse membrane matter, Claro products have you covered.



MARKETS

- Greenhouse
- Horticulture
- Hot Houses

**GO GREEN
WITHOUT
SPENDING
ANY MORE
GREEN.**

Helping our customers with sustainable solutions at **no additional cost**



CRADLE TO CRADLE CERTIFIED®

Claro Grow and Claro Grow AFG products are **Cradle to Cradle Certified® Bronze Level**.

Cradle to Cradle Certification is a rigorous auditing process across five critical performance categories. A product is assigned an achievement level (Bronze, Silver, Gold, Platinum) for each category. A product's lowest category achievement also represents its overall certification level.



For more information concerning Cradle to Cradle Certified Products



 **material health**

 **product circularity**

 **clean air & climate protection**

 **water & soil stewardship**

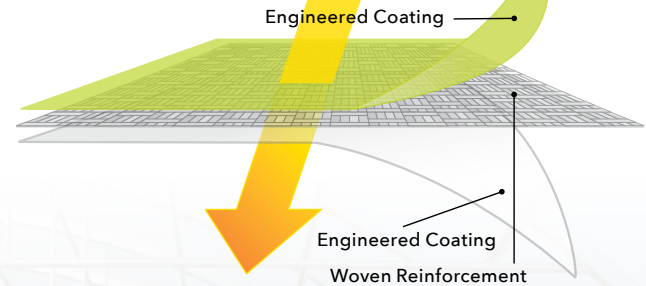
 **social fairness**

C2C Certified® Product Standard

Cradle to Cradle Certified® is a registered trademark of the Cradle to Cradle Products Innovation Institute.

FEATURES & BENEFITS

- Cradle to Cradle Certified® Bronze
- Enhanced UV protection for longer service life
- High strength-to-weight ratio
- Lightweight material making installation easier and faster while reducing cost
- Excellent light transmittance in the PAR region for photosynthesis (400nm to 700nm)
- Dirt repelling LDPE coating
- Excellent tear resistance
- 5 year warranty



PRODUCT ATTRIBUTES

CHARACTERISTICS	Claro™ Grow Light RU210, 1.75	Claro™ Grow RU6-6, 1.75	Claro™ Grow RU8-6,1.75
Weave	Woven Clear HDPE Tapes	Woven Clear HDPE Tapes	Woven Clear HDPE Tapes
Coating	LDPE with UV stabilizers 1.75 mil (42 g/m ²)/side	LDPE with UV stabilizers 1.75 mil (42 g/m ²)/side	LDPE with UV stabilizers 1.75 mil (42 g/m ²)/side
Light Transmittance (ASTM D3786)	Visible (PAR) 83%	Visible (PAR) 83%	Visible (PAR) 82%
Weight	5.5 oz/yd ² (186 g/m ²)	5.5 oz/yd ² (186 g/m ²)	6.0 oz/yd ² (203 g/m ²)
Cores	4" or 5" I.D. available	4" or 5" I.D. available	4" or 5" I.D. available
Width	Up to 144"(-0, +0.5)	Up to 144"(-0, +0.5)	Up to 144"(-0, +0.5)
Length	Minimum 500 yds/roll; up to 2000 yds/roll (1829 m)	Minimum 500 yds/roll; up to 2000 yds/roll (1829 m)	Minimum 500 yds/roll; up to 2000 yds/roll (1829 m)
Colors	Clear	Clear	Clear
Limited Warranty	5 years	5 years	5 years

CLARO GROW AFG

FEATURES & BENEFITS

- Cradle to Cradle Certified® Bronze
- Exceptional condensation control to prevent the buildup of condensation on the fabric interior
- Excellent light transmission in the PAR region for photosynthesis (400 nm to 700 nm) to optimize yield of greenhouse crops
- Advanced UV protection for long service life
- Excellent tear resistance easily handles years of snow and wind loads
- A cost-effective alternative to polycarbonate panels and glass panels
- Sulphur-resistant



PRODUCT ATTRIBUTES

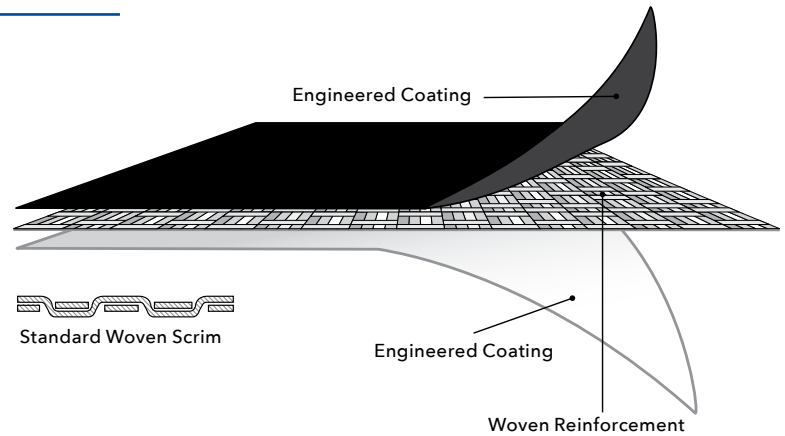
CHARACTERISTICS	Claro™ Grow AFG RU210 Anti-Fog	Claro™ Grow AFG RU6-6 Anti-Fog	Claro™ Grow AFG RU8-6 Anti-Fog
Weave	Woven Clear HDPE Tapes	Woven Clear HDPE Tapes	Woven Clear HDPE Tapes
Coating	LDPE with 2.25 mil/side	LDPE with 1.75 mil/side	LDPE with 1.75 mil/side
Additives	Anti-Fog and UV stabilizers	Anti-Fog and UV stabilizers	Anti-Fog and UV stabilizers
Weight	5.3 oz/yd ² (180 g/m ²)	5.5 oz/yd ² (186 g/m ²)	6.0 oz/yd ² (203g/m ²)
Cores	4" or 5" I.D. available	4" or 5" I.D. available	4" or 5" I.D. available
Width	Up to 144" (-0, +0.5)	Up to 144" (-0, +0.5)	Up to 144" (-0, +0.5)
Length	500 to 1,000 yds/roll	500 to 1,000 yds/roll	500 to 1,000 yds/roll
Colors	Clear	Clear	Clear
Light Transmittance (visible)	85%	83%	82%
Diffusion	63%	77%	82%
Limited Warranty	5 years	5 years	5 years

All layers of Claro Grow AFG are translucent, allowing up to 85% light transmittance into the greenhouse structure.

CLARO OPAQUE

FEATURES & BENEFITS

- Enhanced UV protection for longer service life
- High strength-to-weight ratio
- Lightweight material making installation easier and faster while reducing cost
- Proprietary coating provides heavyweight blackout properties in a medium weight cover
- Dirt repelling LDPE coating
- Excellent tear resistance
- 5 year limited warranty



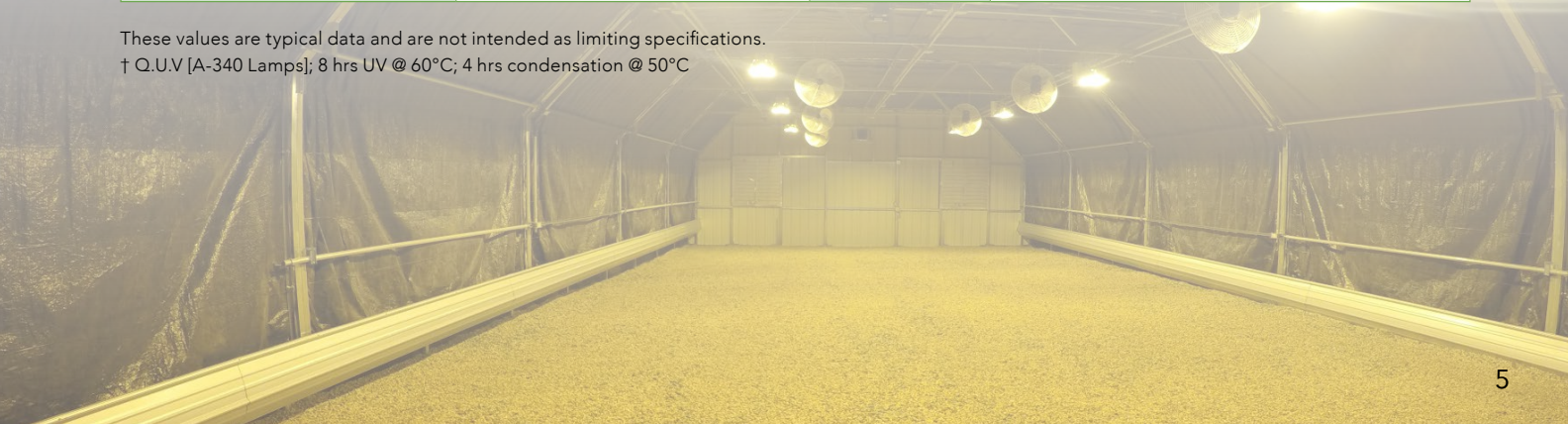
PRODUCT ATTRIBUTES

CHARACTERISTICS	Weave	Coating/Film	Weight	Cores	Width	Length	Colors	Limited Warranty
Claro™ Opaque (RB6-6)	Woven Black HDPE Tapes	LDPE with UV stabilizers 1.75 mil (42 g/m ² /side)	5.2 oz/yd ² ± 5% 176 gsm ± 5%	4" or 5" I.D. available	Up to 144" (-0, +0.5)	Minimum 500 yds ; up to 2000 yds/roll	White/Black	5 years

Grab Tensile	Tongue Tear	Mullen Burst	Accelerated UV Weathering †
ASTM D5034	ASTM D2261	ASTM D3786	ASTM G154
Warp 180 lb (800 N) / Weft 125 lb (555 N)	Warp 50 lb (222 N) / Weft 50 lb (222 N)	275 psi (1894 kPa)	>90% strength retention after 2000 hrs exposure @ 0.77 W/m ² /nm, or 1200 hrs exposure @ 1.35 @/m ² /nm

These values are typical data and are not intended as limiting specifications.

† Q.U.V [A-340 Lamps]; 8 hrs UV @ 60°C; 4 hrs condensation @ 50°C



IPG LOCATIONS

NORTH AMERICA

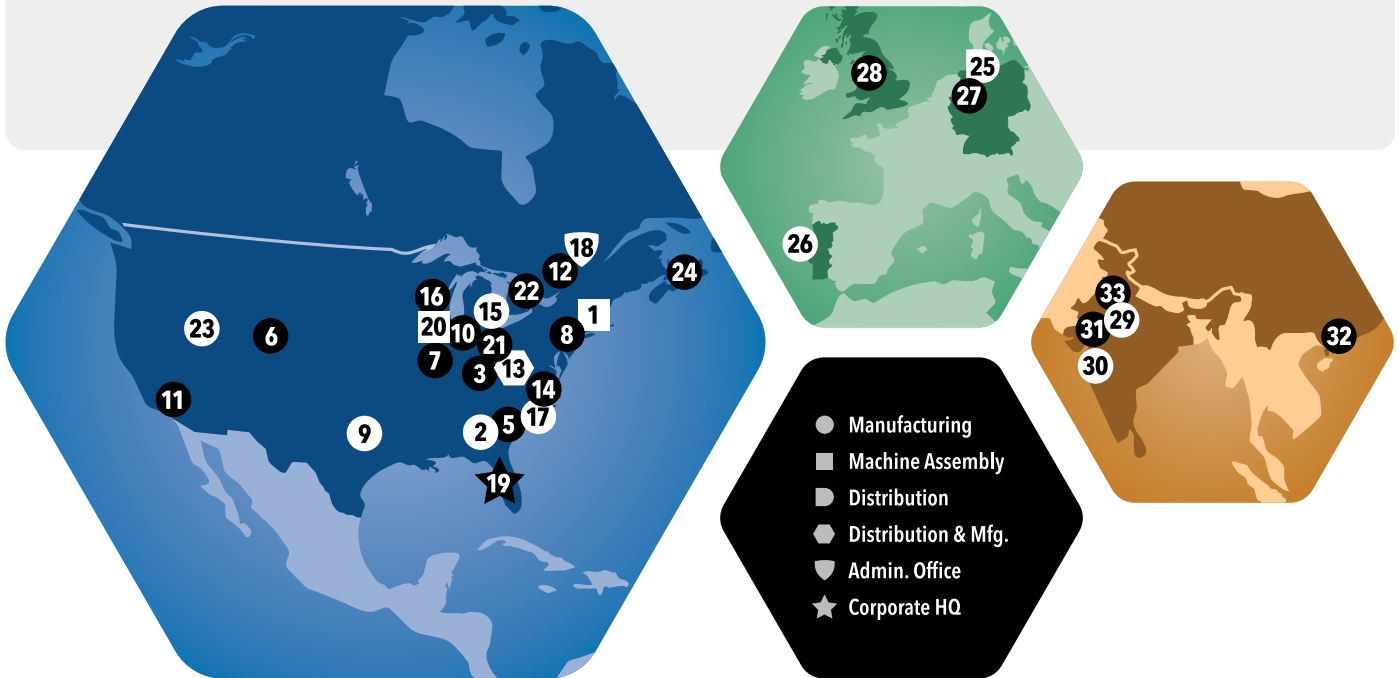
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|----------------------|-------------------|--------------------|---------------------|
| 1. Ansonia, CT | 8. Carlstadt, NJ | 14. Everetts, NC | 20. Schaumburg, IL |
| 2. Atlanta, GA | 9. Carrollton, TX | 15. Marysville, MI | 21. Springfield, OH |
| 3. Bardstown, KY (2) | 10. Chicago, IL | 16. Menasha, WI | 22. Toronto, ON |
| 5. Blythewood, SC | 11. Corona, CA | 17. Midland, NC | 23. Tremonton, UT |
| 6. Brighton, CO | 12. Cornwall, ON | 18. Montreal, QC | 24. Truro, NS |
| 7. Carbondale, IL | 13. Danville, VA | 19. Sarasota, FL | |

EUROPE

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| 25. Flensburg, Germany |
| 26. Porto, Portugal |
| 27. Soest, Germany |
| 28. Widnes, UK |

ASIA

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| 29. Chopanki, India |
| 30. Daman, India |
| 31. Dahej, India |
| 32. Jiangmen City, China |
| 33. Karoli, India |



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