



an  company

# 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**

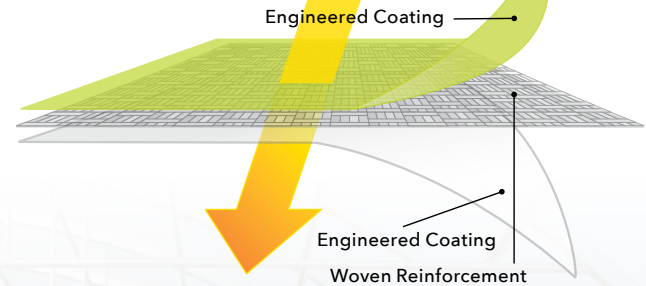
 **social fairness**

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
<b>Weave</b>	Woven Clear HDPE Tapes	Woven Clear HDPE Tapes	Woven Clear HDPE Tapes
<b>Coating</b>	LDPE with UV stabilizers 1.75 mil (42 g/m <sup>2</sup> )/side	LDPE with UV stabilizers 1.75 mil (42 g/m <sup>2</sup> )/side	LDPE with UV stabilizers 1.75 mil (42 g/m <sup>2</sup> )/side
<b>Light Transmittance</b> (ASTM D3786)	Visible (PAR) 83%	Visible (PAR) 83%	Visible (PAR) 82%
<b>Weight</b>	5.5 oz/yd <sup>2</sup> (186 g/m <sup>2</sup> )	5.5 oz/yd <sup>2</sup> (186 g/m <sup>2</sup> )	6.0 oz/yd <sup>2</sup> (203 g/m <sup>2</sup> )
<b>Cores</b>	4" or 5" I.D. available	4" or 5" I.D. available	4" or 5" I.D. available
<b>Width</b>	Up to 144"(-0, +0.5)	Up to 144"(-0, +0.5)	Up to 144"(-0, +0.5)
<b>Length</b>	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)
<b>Colors</b>	Clear	Clear	Clear
<b>Limited Warranty</b>	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

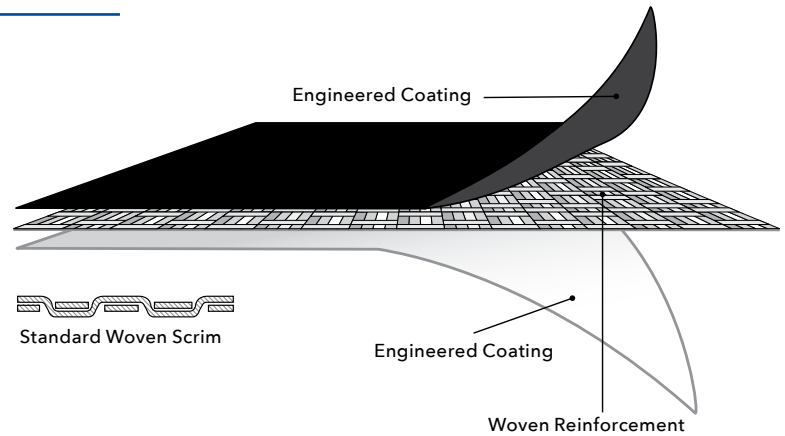
CHARACTERISTICS	Claro™ Grow AFG RU210 Anti-Fog	Claro™ Grow AFG RU6-6 Anti-Fog	Claro™ Grow AFG RU8-6 Anti-Fog
<b>Weave</b>	Woven Clear HDPE Tapes	Woven Clear HDPE Tapes	Woven Clear HDPE Tapes
<b>Coating</b>	LDPE with 2.25 mil/side	LDPE with 1.75 mil/side	LDPE with 1.75 mil/side
<b>Additives</b>	Anti-Fog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



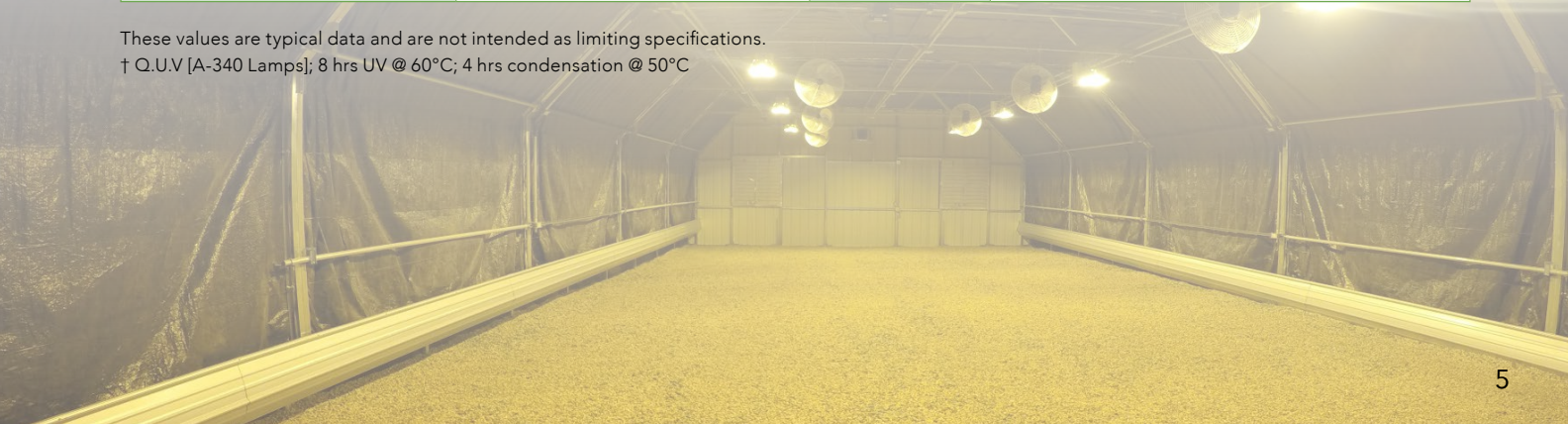
## PRODUCT ATTRIBUTES

CHARACTERISTICS	Weave	Coating/Film	Weight	Cores	Width	Length	Colors	Limited Warranty
<b>Claro™ Opaque (RB6-6)</b>	Woven Black HDPE Tapes	LDPE with UV stabilizers 1.75 mil (42 g/m <sup>2</sup> /side)	5.2 oz/yd <sup>2</sup> ± 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 <sup>2</sup> /nm, or 1200 hrs exposure @ 1.35 @/m <sup>2</sup> /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

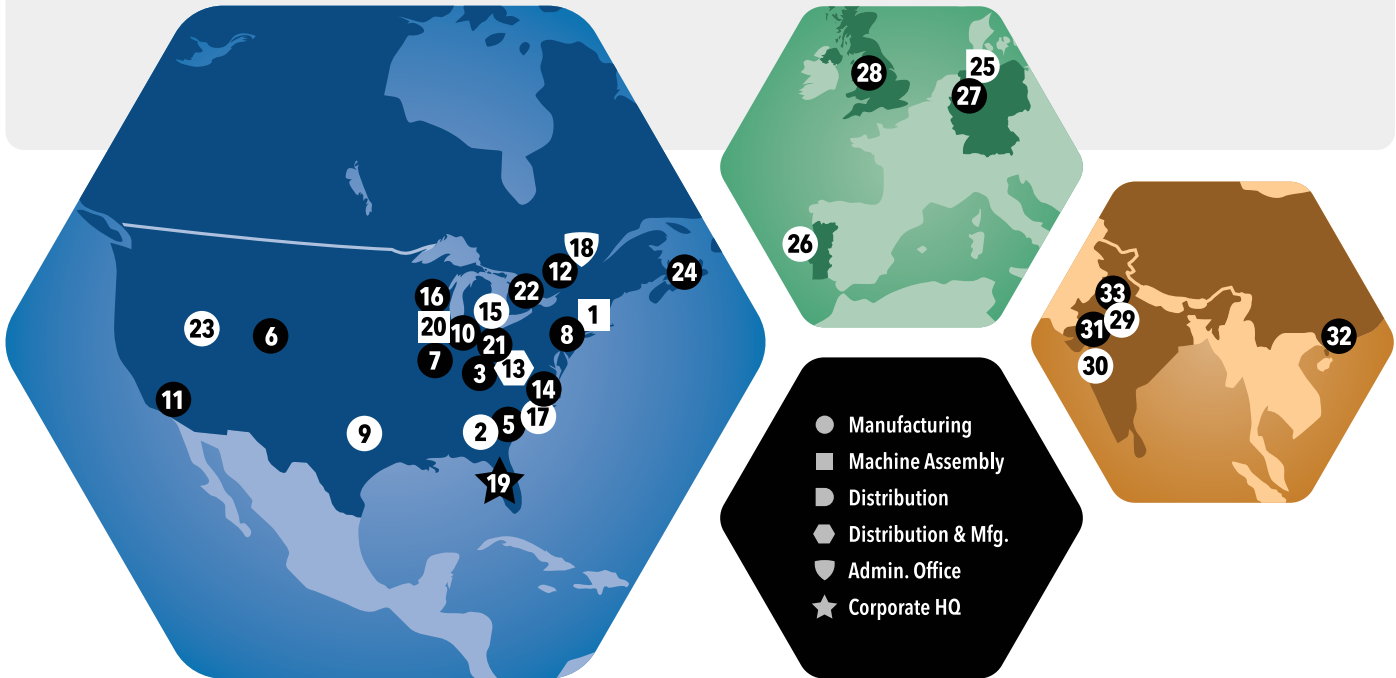
- |                      |                   |                    |                     |
|----------------------|-------------------|--------------------|---------------------|
| 1. Ansonia, CT       | 8. Carlstadt, NJ  | 14. Everetts, NC   | 20. Schaumburg, IL  |
| 2. Atlanta, GA       | 9. Carrollton, 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

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

## ASIA

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



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