# BASF NovaFlex Sustainable-GlareControl

We create chemistry

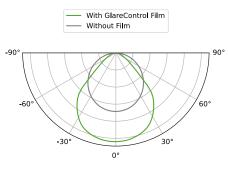
More controlled light less glare.

## **Technical Data Sheet**

BASF Sustainable-GlareControl Film S-GC-355

The **BASF Sustainable-GlareControl** film combines glare reduction with high aesthetic appeal in a seamless product. Its innovative, invisible patterns effectively reduce glare at angles above 65° while increasing light intensity in lower angles. This improves efficiency and lowers UGR (Unified Glare Rating) values for your luminaires, making it ideal for office lighting.

**Sustainability:** In addition to its technical advantages, the **BASF Sustainable-GlareControl** film is produced with sustainability in mind, supporting eco-friendly practices and reducing the product's carbon footprint, making it a responsible choice for modern lighting solutions.



Optical performance data refers to typical values; they vary greatly depending on luminaire design. Results shown were measured using a test fixture with Lambertian light source in a goniophotometer.



- <sup>(1)</sup> Product carbon footprint data is based on assumptions and approximations valid at the time of data collection. For more information, please visit <u>https://www.basf.com/global/en/who-we-are/sustainability/we-drive-sustainable-solutions/quantifying-sustainability/product-carbon-footprint.html</u>.
- <sup>(2)</sup> CIE117, 4H 8H (20%, 50%, 70%) (580 mm x 580 mm luminous surface, Lambertian-like input light source)
- $^{(3)}\,$  measured for light at 0° angle of incidence in typical application direction
- (4) patent granted
- (5) for substrate

### **Sustainability Data**

Product Carbon Footprint compare to GlareControl GC-355	~ 40% less $CO_2$ emissions <sup>(1)</sup>	
Material	Micro-structured coating <sup>(4)</sup> on 80% post-consumer recycled PET	
Optical Data		
Glarefree Luminous Flux	> 7000 lm <sup>(2)</sup>	
Transmission	> 90 % <sup>(3)</sup>	

## **Material Data**

	Width	630 mm (customizable)
Dimensions	Thickness	0.355 ± 0.02 mm
-	Length	Seamless up to 250 meters
Average Linear Thermal Expansion Coefficient	Machine Direction	22 µm/(m*K) <sup>(5)</sup>
Range of 60 to 80 °C	Traverse Direction	16 µm/(m*K) <sup>(5)</sup>
Heat Shrinkage 168 h, 90 °C		< 1 %
UV Stability Color change after	Δa	< 0.5
0.34 kWh/m <sup>2</sup> @ 340 nm Irradiated on structured side of product	Δb	< 1.0
60 °C Black Panel Temp. during illumination DIN EN ISO 4892-1 Okt16 DIN EN ISO 4892-3 Okt16	ΔΥί	< 2.0
Bend Radius DIN EN ISO 1519 DE	Before aging	< 20 mm
Aging by climate cycle test (- 40 to + 80 °C, 30 to 80 % r.H.)	After aging	< 20 mm
Temperature Range	- 40 °C to + 80 °C	
Glow Wire Flammability IEC 60695-2-11		650 °C

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our products, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the products for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein are for general information purpose only; they may change without prior information and do not constitute the agreed contractual quality of the products (product specification). It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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## **Product Information**

- Infinite lengths Design for any size, without a single seam
- Rollable, flexible diffuser film solution
- Smoother appearance Structures invisible to the eye for highest aesthetics
- Customizable in length, width and thickness to meet your individual needs
- High quality lamination on glass, PMMA or PC possible

## Notes



#### Sustainability

Biomass Balance Approach:

Reduce CO<sub>2</sub> emissions and save fossil resources



#### Application

Structured side facing away from light source



#### Cutting

Material can be cut to width and length by scissor or knife

### **Contact Information**

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#### Visit our website for:

- Customization
- Support and product choice
- Optimization of light distributions
- Custom product developments

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