

CORNING

Fibrance®
Light-Diffusing Fiber 2



Corning® Fibrance® Light-Diffusing Fiber 2

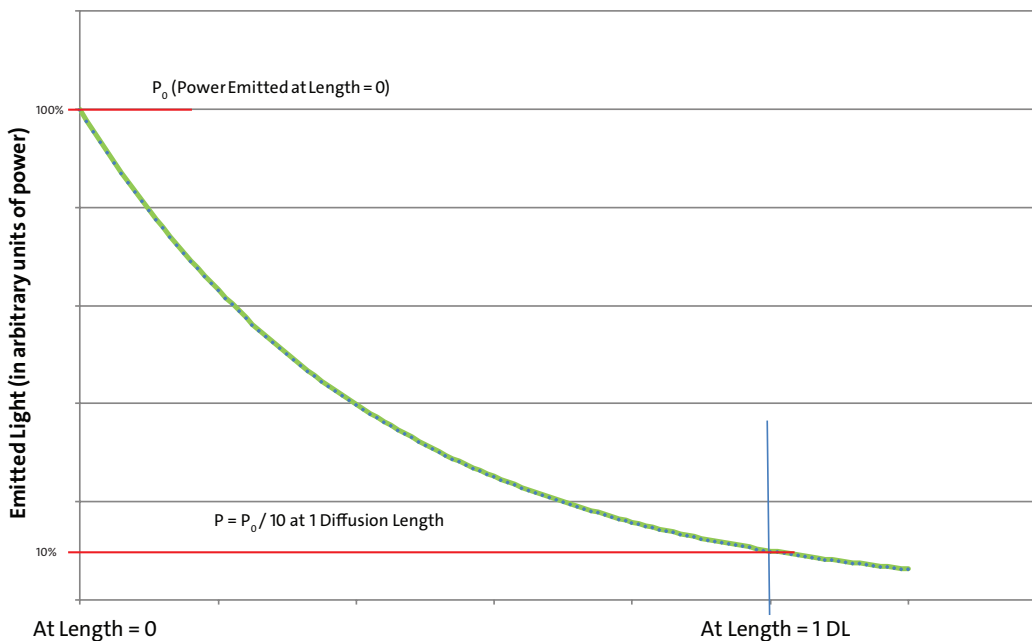
Specification Sheet

Corning® Fibrance® Light-Diffusing Fiber 2 is a glass optical fiber with enhanced performance made for thin, colorful, aesthetic lighting. This technology enables decorative lighting to be designed or embedded into tight or small places where other bulky lighting elements cannot fit. With this fiber, designers can add light where and how they want, while enhancing the product's overall appeal, functionality, and user experience.

Product Attributes

- Glass optical fiber
- Small, thin, and flexible
- Tight-bend capability
- Bright, clear color
- Emits continuous, uniform light
- Versatile for a variety of applications

Light-Diffusion Characteristics



Optical:

Diffusion Length (Nominal)	1m	5m	10m
Numerical Aperture (nominal)	>0.46	>0.46	>0.46
Operating Wavelength Range (nm)	420 to 700	420 to 700	420 to 700
Viewing Angle ¹	> 120 degrees	> 120 degrees	> 120 degrees

Mechanical (unjacketed fiber):

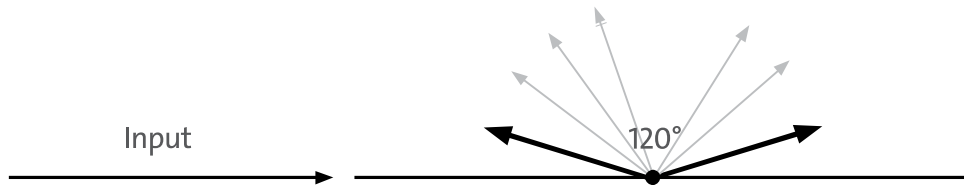
Core Diameter (μm)	170 ± 3	170 ± 3	170 ± 3
Outer Diameter (μm)	230 +0/-10	230 +0/-10	230 +0/-10
Proof Test - Tensile Strength (kpsi)	100	100	100

Environmental:

Operating Temperature Target*(°C)	-20 to +105	-20 to +105	-20 to +105
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**limited data*

Viewing angle is defined as the angle at which the luminance is greater than 50 % of the maximum. The fiber emits light uniformly in 360° around the circumference of the fiber and >120° along the length of the fiber if viewed from either end.



Products available in standard lengths of 1 m, 5 m, and 10 m diffusion lengths. Fiber lengths have been optimized for use with laser diode sources.

CORNING | Fibrance® Light-Diffusing Fiber 2

For more information:

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