

Brochure

VIAVI

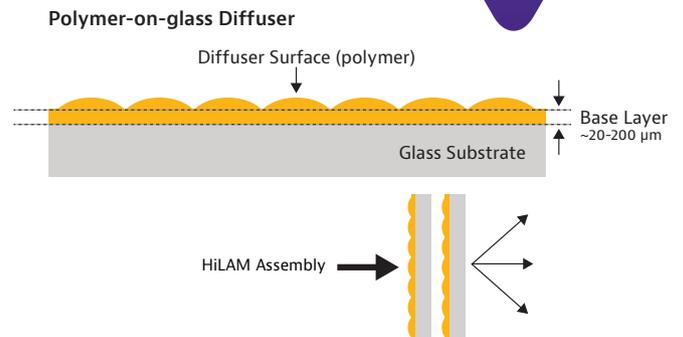
HiLAM Engineered Diffusers

High-efficiency Lambertian Diffuser

Scatter Properties	
Model	HiLAM
Shape	Lambertian
Divergence angle	120°
Physical Properties	
Material	Polymer-on-glass
Index of refraction	1.56 @ 633nm
Clear aperture	Center 95%
Transmission spectrum	400-2000nm
Temperature range	-50°C to 120°C
Damage threshold	20J/cm ²

Technical Notes:

1. Divergence angle measured with collimated laser, 633 nm. Actual angles may vary depending on wavelength or degrees of collimation.
2. Increasing beam size typically improves uniformity.
3. When used with coherent sources the diffuser produces speckle.
4. Handling and cleaning:
 - Avoid touching diffuser surface
 - To clean just blow dry compressed air
5. Temperature range and damage threshold reflect manufacturer's recommendations and specific testing conditions and are for informational purposes only. Your specific operating conditions may be distinct depending on other system and environmental variables.

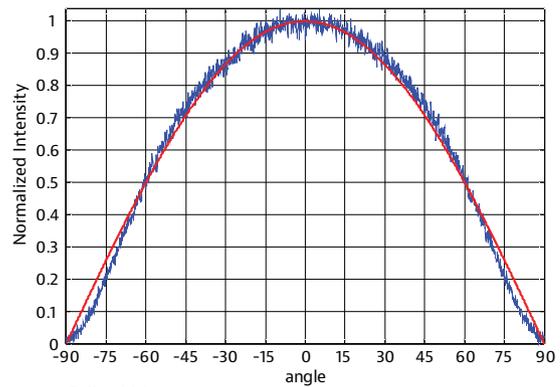


Available Size



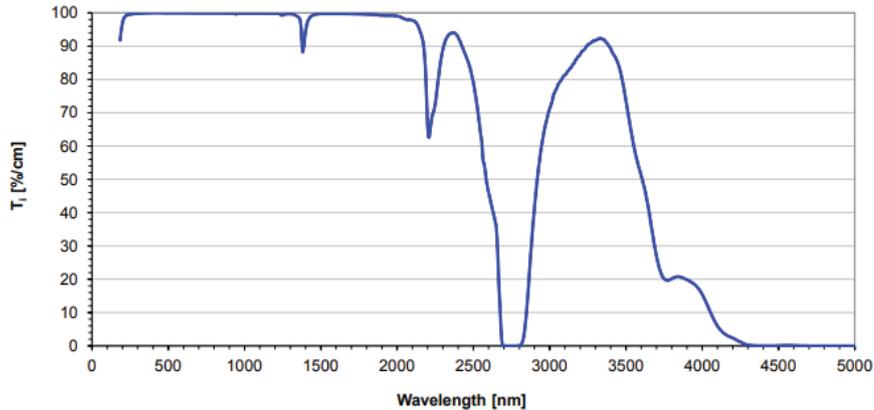
*Diffuser side faces the source

Measured Intensity



Full-width at 50%: 120°
 Input beam diameter: 5 mm
 Detector angle: 0.25°

Transmission Spectrum



- Diffuser angles measured in the far-field @ 633 nm. Input beam size ~5 mm, detector subtense 0.25°. Actual angles may vary depending on wavelength or degree of collimation.
- For best uniformity, input beam should be many times larger than diffuser feature size.
- When used with coherent sources the diffuser produces speckle.
- Handle with gloves by edges and avoid touching diffuser surface. Blow with air/N₂ to clean. The plano side may be cleaned by wiping with an alcohol wipe.
- Edges are “fire polished” quality.
- Information subject to change without notice.

