

PHOTONICS spectra®

WHITE PAPERS & APPLICATION NOTES



PRODUCT NOTE
UV/Vis Spectroscopy

Key features:

- Unique accessory for accurate measurement of reflectance and transmittance
- Patented cover glass holds optical or textured/coated glass, building and greenhouse
- New optical design eliminates causes of many common errors
- Compatible with PerkinElmer LAMDA 1050+ UV/Vis spectrophotometer

Trusted Glass Measurements for Better Product Development

Gas industry and glass testing laboratories that develop and manufacture high-efficiency solar cells, diffuse glass for optimized light distribution in greenhouses, and light-diffusing glazing need the ability to accurately measure the transmission and reflection properties of these materials. They are also legally required to prove their products meet essential glass regulations such as NFRC, IBC, ISO, CE to comply with industry standards.

A standard tool for the optical characterization of glazing is a UV/Vis spectrophotometer equipped with an integrating sphere unit. A lack of trust in these instruments or inaccurate measurements can result in inadvertently submitting wrong data and lead to losing certifications and customer trust - adversely impacting business. Integrating spheres are designed for measurements of light-diffusing and light-scattering glazing samples. However, the present commercially available integrating spheres are not suitable for accurately measuring the transmittance of these products.

The PerkinElmer UL270 integrating sphere is a unique accessory that allows new accuracy to be achieved in the measurement of light-diffusing materials and adequately solves the various measurement problems involved in measuring transmittance and reflectance of light-diffusing and light-scattering samples discussed in detail.



Trusted Glass Measurements for Better Product Development

The PerkinElmer UL270 integrating sphere is a unique accessory that allows new accuracy to be achieved in the measurement of light-diffusing materials and adequately solves the various measurement problems involved in measuring transmittance and reflectance of light redirecting and light-scattering samples discussed in detail.

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