

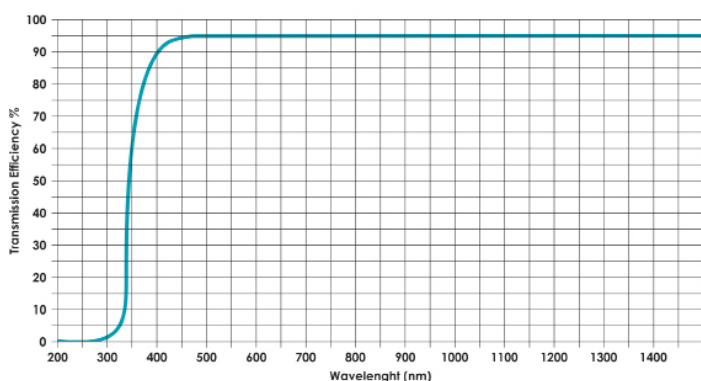
Glass-on-Glass Light Shaping Diffusers®

High Temperature/High Power Applications

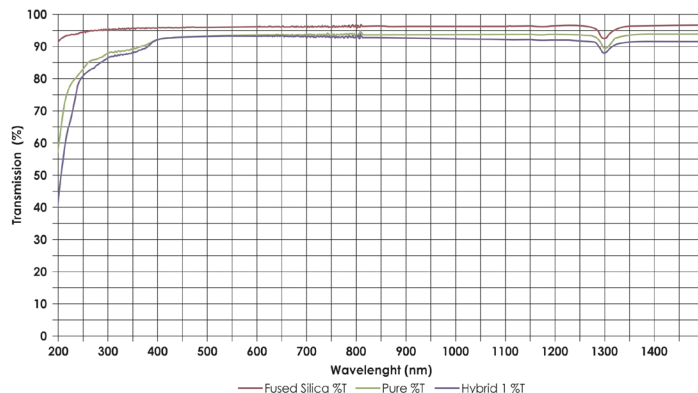
Designed for high temperature and high power applications, Luminit Glass-on-Glass Light Shaping Diffusers® offer superior UV transmission. A holographically recorded, randomized surface relief structure is replicated in a layer on the surface of a UV silica or B270 substrate. The precise surface relief structures provide high transmission efficiency (up to 92%) and controlled beam angle divergence while providing high quality homogenized light.

	ANGLES (FWHM)	TEMP.	SUBSTRATE	REFRACTIVE INDEX	LASER DAMAGE THRESHOLD
PURE	0.5°-12° Circular	500° C	Fused Silica	1.46	8J/cm2
HYBRID1	0.5°-50° Circular	275° C	Fused Silica	1.46	2.6J/cm2

- High temperature: Up to 500°C stable
- High laser damage threshold: 8J/cm² (1064nm, 10ns pulse laser)
- Excellent UV transmission: ~up to 77% at 240nm



LSD on B270 Transmission Performance



LSD on UV Glass Transmission Performance