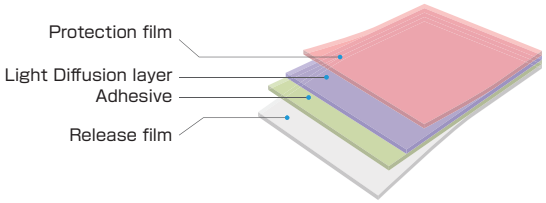
Opteria

Light Diffusion Film

Light Diffusion Film DF series

This unique light diffusion film has a refractive index distribution structure inside the film.
By using light efficiently, it is able to contribute to high visibility and energy saving in display devices.
The diffuse shape (anisotropic/isotropic) and diffusion angle can be adjusted depening on the purpose.

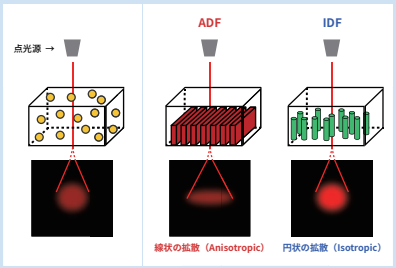
Composition



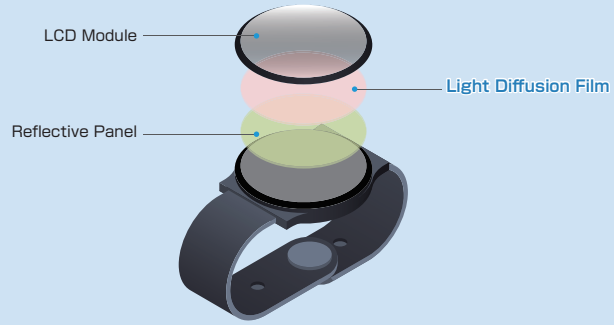
- Incident light angle for diffusion can be controlled
- Excellent uniformity of diffused light
- High transparency (non-diffusion area)
- Low-backscattering
- Maintenance of polarization

Features

Unique light diffusion behavior (anisotropic type diffusion / isotropic type diffusion)
Louver structure → Anisotropic Diffusion (ADF)
Columnar structure → Isotropic Diffusion (IDF)



Application



Projection screens, Reflective displays, Smart watches, etc.

Product Line-up

Type	Capable thickness	Example				
		Internal structure image	Product name	Thickness	Diffusion area (High haze area) *1	Diffuse light distribution*2
H type (Single columnar)	60~120		HDA060	60μm	-35°~-2°	
			HAA120	120μm	-19°~+19°	
G type (Bent single columnar)	60~110		GBA110	110μm	-35°~+12°	
D type (Double columnar)	140~200		DCB200	200μm	-49°~+14°	
F type (Bent double columnar)	140~200		FCB200	200μm	-56°~+17°	
I type (Single louver)	100~160		IKA130	130μm	< -70°~-43°	
E type (Louver and Columnar)	140~200		EDB200	200μm	-41°~+22°	

*1 Set by variable haze meter,threshold=93%　※Threshold Haze60% only for I type　*2 Transmission mode, Incident angle=0°　※Point light source incident angle 50° only for I type

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