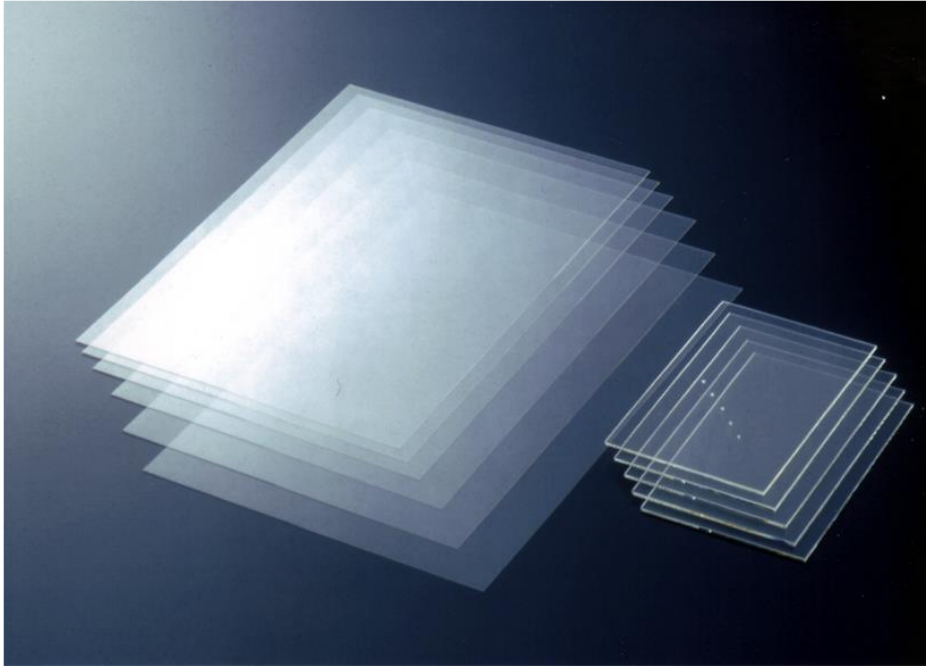


Segment : Substrate

MATSUNAMI GLASS IND., LTD.

Products : 801 (DWDM Substrate)

D-150 (Substrate for crystallization)



< Characteristics >

Product name	801
Refractive index (nD)	1.523
Expansion coefficient α [10 ⁻⁷ /°C]	107 (100/300)
Transition point Tg [°C]	512
Deformation point At [°C]	575
Softening point Ts [°C]	690
Knoop hardness Hk	510 (100g/15sec)
Density [g/cm ³]	2.50
Color	Achromatic
Composition type	Borosilicate
Dielectric constant ϵ_r [1MHz]	5.1
Dielectric loss factortan α ×10 ⁻⁴ [1MHz]	35.0
RoHS regulated substances	Not contained
Halogenated substances	Not contained
Antimony compound	Contained

Product name	D150
Refractive index (nD)	1.521
Expansion coefficient α [10 ⁻⁷ /°C]	103 (100/300)
Transition point Tg [°C]	442
Deformation point At [°C]	447
Softening point Ts [°C]	612
Knoop hardness Hk	498 (100g/15sec)
Density [g/cm ³]	2.31
Color	Achromatic
Composition type	Silicate
Dielectric constant ϵ_r [1MHz]	6.30
Dielectric loss factortan α ×10 ⁻⁴ [1MHz]	0.22
RoHS regulated substances	Not contained
Halogenated substances	Not contained
Antimony compound	Not contained