

Glass Material

SFS01 is used as standard of glass material in our products.

SFS01 is an old name according to the custom of the SCHOTT Co..
The present SCHOTT sign is SF58 (Sign of OHARA Ltd. is PBH71.).

SFS01 has the characteristics that the refractive index is especially high in the optical glass.
And the combination with most general MgF_2 is possible to be near 0 reflectivity by antireflection coating at single layer.

Technical Data

Refractive Index	n_d	1. 92286
Abbe Number	ν_d	21. 3
Dispersion	$n_F - n_C$	0. 04335

Refractive Indices	
(1650)	1. 86746
(1550)	1. 86926
(1480)	1. 87058
(1310)	1. 87415
(980)	1. 88445
(780)	1. 89665
n_C (656. 27)	1. 91057
n_d (587. 56)	1. 92286
n_F (656. 29)	1. 95392

Thermal Properties	
Transformation Temperature T_g (°C)	389
Expansion Coefficients ($\alpha \times 10^{-7}/^{\circ}C$)	(-30~+70°C) 88 (+100~+300°C) 100
Thermal Conductivity k (W/m·K)	0. 571

Mechanical Properties		
Young's Modulus	E (108N/m ²)	529
Rigidity Modulus	G (108N/m ²)	209
Poisson's Ratio	σ	0. 265

Others		
Specific Gravity	d	6. 05

Attention

When using in the state that the glass is heated up, please use at the temperature with room on the low temperature side against the Transformation Temperature (T_g).