

Glass Material (2)

In a part of product such as lenses of the all glass type, glass (N-PBM40) different from SFS01 is used.

This material has an optical performance near SF2 or SF12.

The performance becomes excellent by giving multilayers as an antireflection coating.

Technical Data

Refractive Index	n_d	1. 64769
Abbe Number	ν_d	35. 4
Dispersion	$n_F - n_C$	0. 01830

Refractive Indices	
(1650)	1. 61958
(1550)	1. 62089
(1480)	1. 62181
(1310)	1. 62416
(980)	1. 63000
(780)	1. 63599
n_C (656. 27)	1. 64232
n_d (587. 56)	1. 64769
n_F (656. 29)	1. 66062

Thermal Properties	
Transformation Temperature T_g (°C)	398
Expansion Coefficients ($\alpha \times 10^{-7}/^{\circ}\text{C}$)	$(-30 \sim +70^{\circ}\text{C})$ 80 $(+100 \sim +300^{\circ}\text{C})$ 101
Thermal Conductivity k (W/m·K)	0. 874

Mechanical Properties	
Young's Modulus E (108N/m ²)	672
Rigidity Modulus G (108N/m ²)	275
Poisson's Ratio σ	0. 225

Others	
Specific Gravity d	3. 70

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).