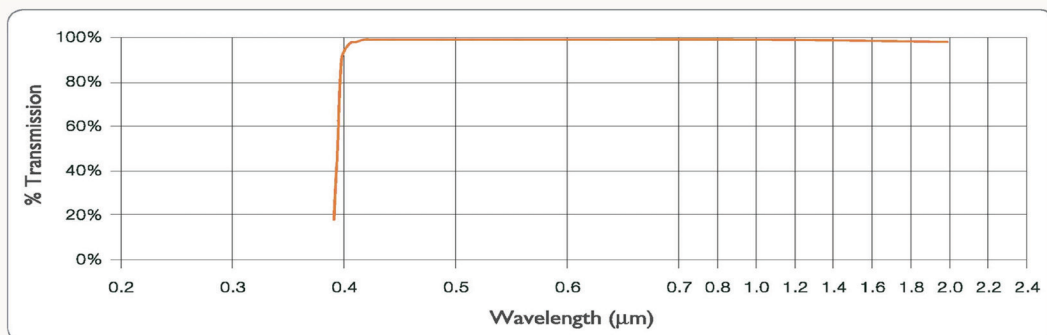


K-PSFn202 Glass Datasheet

K-PSFn202

Internal Transmission Curve
(5mm thickness)



Optical Properties

Refractive Indices*		
Index	λ (nm)	Value
$n_{1548.1}$	1548.1	1.952
$n_{1308.5}$	1308.5	1.968
n_{τ}	1014.0	1.991
n_r	706.5	1.998
n_c	656.3	2.001
$n_{c'}$	643.8	2.011
n_D	589.3	2.012
n_d	587.6	2.023
n_e	546.1	2.046
n_F	486.1	2.049
$n_{F'}$	480.0	2.076
n_g	435.8	2.104
n_h	404.7	2.163

Dispersion*		
Abbe Number	Value	
v_d	21.1	
v_e	21.3	

Coloring	
$\lambda_{80} / \lambda_{5}$	Value
$\lambda_{80} / \lambda_{5}$	44/40

Standard Coatings		
Coating	λ Range (nm)	Reflectivity
BB400 - 700	400 - 700	$R_{avg} < 0.50\%$
MLBB-B	600 - 1050	$R_{max} < 1.0\%$
MLBB-C	1050 - 1600	$R_{max} < 1.0\%$
MLBB-Q	1300 - 1700	$R_{max} < 0.25\%$

Other Properties

RoHS Compliance	
Lead (Pb)	< 2ppm
Mercury (Hg)	< 2ppm
Cadmium (Cd)	< 2ppm
Hexavalent Chromium (Cr ⁶⁺)	< 2ppm
PBB	< 2ppm
PBDE	< 2ppm

Mechanical Properties	
Density	6.22 g/cm ³
Hardness	484 knoop
Young's Modulus	85.1 GPa

Thermal Properties	
T _g	460 °C
CTE	7.4 x 10 ⁻⁶ / °C
dn/dT	19.2 x 10 ⁻⁶ / °C

Applications

This material can be used in many visible to NIR applications, including telecommunications, and more specifically, with transceivers and tunable lasers.

LightPath[®] lenses that have a 374xxx prefix use the K-PSFn202 glass.

* All sections noted with an asterisk represent glass characteristics after molding.