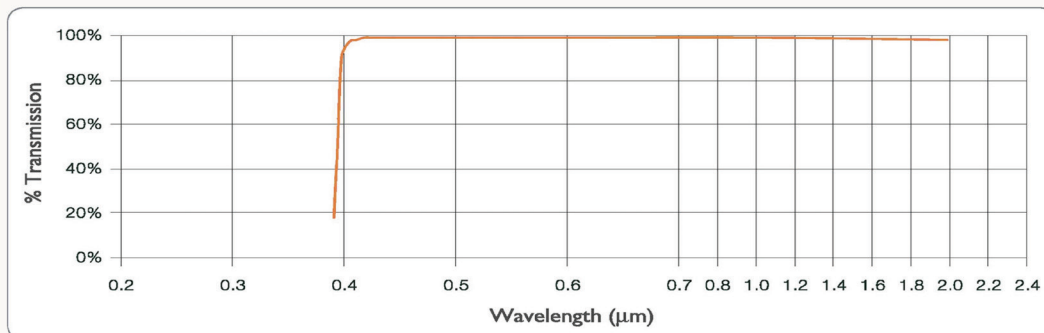


# K-PSFn202 Glass Datasheet

## K-PSFn202

Internal Transmission Curve  
(5mm thickness)



## Optical Properties

Refractive Indices*		
Index	$\lambda$ (nm)	Value
$n_{1548.1}$	1548.1	1.952
$n_{1308.5}$	1308.5	1.968
$n_{\tau}$	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	
$\lambda_{80} / \lambda_s$	Value
$\lambda_{80} / \lambda_s$	44/40

Standard Coatings		
Coating	$\lambda$ 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 <sup>6+</sup> )	< 2ppm
PBB	< 2ppm
PBDE	< 2ppm

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

Thermal Properties	
T <sub>g</sub>	460 °C
CTE	7.4 x 10 <sup>-6</sup> / °C
dn/dT	19.2 x 10 <sup>-6</sup> / °C

## Applications

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

LightPath<sup>®</sup> lenses that have a 374xxx prefix use the K-PSFn202 glass.

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