※レンズ成形難易度が特に高い硝材です。
Moldability of this glass material is classified as "especially difficult".

839239 K-PSFn3	nd	1.83917	νd	23.9	nF−nC	0.03517
	ne	1.84746	νe	23.7	nF'−nC'	0.03581

屈 折 率 Refractive Indices

n1548	1548.1	1.79230
n1309	1308.5	1.79741
nt	1014.0	1.80579
nA'	768.2	1.81846
nr	706.5	1.82369
nC	656.3	1.82915
nC'	643.8	1.83069
nD	589.3	1.83888
nd	587.6	1.83917
ne	546.1	1.84746
nF	486.1	1.86432
nF'	480.0	1.86650
ng	435.8	1.88619
nh	404.7	1.90616
ni	365.0	

分散式の常数 Constants of Dispersion Formula

A0	3.2268914
A1	$-1.4590158 \times 10^{-2}$
A2	4.7763869×10^{-2}
A3	2.7173637×10^{-3}
A4	$-9.5689164 \times 10^{-5}$
A5	2.7097845×10^{-5}

dn/dTの分散常数 Constants of Dispersion dn/dT abs.

D0	-8.51×10^{-6}
D1	1.46×10^{-8}
D2	-1.46×10^{-10}
E0	1.13×10^{-6}
E1	1.15×10^{-9}
λTK (μm)	0.294

部分分散および部分分散比 Partial Dispersions and Relative Partial Dispersions

nC−nt	nC−nA'	nd−nC	ne−nC
0.02336	0.01069	0.01002	0.01831
θC,t	θC,A'	θd,C	θe,C
0.664	0.304	0.285	0.521
ng−nd	ng−nF	nh−ng	ni−ng
0.04702	0.02187	0.01997	
θg,d	θg,F(Δ)	θh,g	θi,g
1.337	0.622 (0.0180)	0.568	
nC'−nt	ne−nC'	nF'−ne	ni−nF'
0.02490	0.01677	0.01904	
θ'C',t	θ'e,C'	θ'F',e	θ'i,F'
0.695	0.468	0.532	

機械的性質 Mechanical Properties		熱的性質 Thermal Properties	
ヌープ硬さ Hk Knoop Hardness	409 (4)	転移点 Tg (℃) Transformation Point	477
ビッカース硬さ Hv Vickers Hardness	397	屈伏点 At (℃) Yielding Point	515
摩耗度 Ha Abrasion	330	線膨張係数 α (×10⁻⁷℃⁻¹) Thermal Expansion (−30〜+70℃)	93
ヤング率 E (×10⁸N·m⁻²) Young's Modulus	883	(+100〜+300℃)	118
剛性率 G (×10⁸N·m⁻²) Modulus of Rigidity	351	熱伝導率 λ (W·m⁻¹·K⁻¹) Thermal Conductivity	0.812
ポアソン比 σ Poisson Ratio	0.256	比熱 Cp (J·kg⁻¹·K⁻¹) Specific Heat	598
化学的性質 Chemical Properties		**その他 Other Properties**	
耐水性(粉末法) RW Water Resistance	1	泡 B Bubbles	
耐酸性(粉末法) RA Acid Resistance	1	着色度 C Coloration	(43)/38
耐久性(表面法) DW Chemical Durability	1	比重 S.g Specific Gravity	3.90
備考 Remarks	Solarization	生産頻度 PF Production frequency	C

内部透過率 τ Internal Transmittance

λ(nm)	3mm	10mm
270		
280		
290		
300		
310		
320		
330		
340		
350		
360	0.097	
370	0.261	0.011
380	0.546	0.133
390	0.744	0.374
400	0.851	0.585
420	0.939	0.810
440	0.968	0.899
460	0.980	0.935
480	0.986	0.956
500	0.990	0.968
550	0.996	0.988
600	0.998	0.995
650	0.998	0.995
700	0.999	0.996
800	0.998	0.996
1060	0.999	0.998
1500	0.999	0.997
2000	0.998	0.993

屈折率の温度係数 Temperature Coefficients of Refractive Index

	(dn/dT)rel. (×10⁻⁶℃⁻¹)			(dn/dT)abs. (×10⁻⁶℃⁻¹)		
(℃)	1548.1	d	g	1548.1	d	g
−40/−20	−4.2	−2.1	1.7	−6.6	−4.6	−0.9
0/+20	−3.4	−1.1	3.2	−5.2	−3.0	1.3
+40/+60	−3.3	−0.8	3.9	−4.6	−2.2	2.4

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