851269 K-PSFn185						
	nd	1.85070	ν d	26.9	nF−nC	0.03161
	ne	1.85815	ν e	26.7	nF'−nC'	0.03215

屈 折 率 Refractive Indices

n1548	1548.1	1.80782
n1309	1308.5	1.81258
nt	1014.0	1.82031
nA'	768.2	1.83191
nr	706.5	1.83668
nC	656.3	1.84162
nC'	643.9	1.84303
nD	589.3	1.85043
nd	587.6	1.85070
ne	546.1	1.85815
nF	486.1	1.87323
nF'	480.0	1.87518
ng	435.8	1.89261
nh	404.7	1.91005
ni	365.0	

分散式の常数 Constants of Dispersion Formula

A0	3.2821266
A1	$-1.3764195 \times 10^{-2}$
A2	4.4857954×10^{-2}
A3	2.0290189×10^{-3}
A4	$-1.5619433 \times 10^{-5}$
A5	1.6072643×10^{-5}

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

D0	-7.95×10^{-6}
D1	1.17×10^{-8}
D2	-2.57×10^{-10}
E0	8.33×10^{-7}
E1	1.16×10^{-9}
λ_{TK} (μm)	0.300

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
0.02131	0.00971	0.00908	0.01653
θ C,t	θ C,A'	θ d,C	θ e,C
0.674	0.307	0.287	0.523
ng−nd	ng−nF	nh−ng	ni−ng
0.04191	0.01938	0.01744	
θ g,d	θ g,F(Δ)	θ h,g	θ i,g
1.326	0.613 (0.0141)	0.552	
nC'−nt	ne−nC'	nF'−ne	ni−nF'
0.02272	0.01512	0.01703	
θ 'C',t	θ 'e,C'	θ 'F',e	θ 'i,F'
0.707	0.470	0.530	

機械的性質 Mechanical Properties

ヌープ硬さ Hk
Knoop Hardness 423 (4)

ビッカース硬さ Hv
Vickers Hardness 427

摩耗度 Ha
Abrasion 280

ヤング率 E ($\times 10^8$N·m^{-2})
Young's Modulus 910

剛性率 G ($\times 10^8$N·m^{-2})
Modulus of Rigidity 356

ポアソン比 σ
Poisson Ratio 0.278

熱的性質 Thermal Properties

転移点 Tg (℃)
Transformation Point 537

屈伏点 At (℃)
Yielding Point 585

線膨張係数 α ($\times 10^{-7}$℃$^{-1}$)
Thermal Expansion
(−30〜+70℃) 85
(+100〜+300℃) 101

熱伝導率 λ (W·m^{-1}·K^{-1})
Thermal Conductivity 0.743

比熱 Cp (J·kg^{-1}·K^{-1})
Specific Heat 529

化学的性質 Chemical Properties

耐水性(粉末法) RW
Water Resistance 1

耐酸性(粉末法) RA
Acid Resistance 1

耐久性(表面法) DW
Chemical Durability 1

備考 Remarks
Solarization

その他 Other Properties

泡 B
Bubbles

着色度 C
Coloration (40)/36

比重 S.g
Specific Gravity 4.17

生産頻度 PF
Production frequency

内部透過率 τ Internal Transmittance

λ(nm)	3mm	10mm
270		
280		
290		
300		
310		
320		
330		
340		
350	0.128	
360	0.431	0.060
370	0.742	0.370
380	0.893	0.685
390	0.944	0.827
400	0.965	0.888
420	0.981	0.938
440	0.987	0.957
460	0.990	0.968
480	0.992	0.975
500	0.994	0.980
550	0.997	0.990
600	0.998	0.995
650	0.999	0.996
700	0.999	0.998
800	0.999	0.998
1060	0.999	0.999
1500	0.999	0.997
2000	0.996	0.987

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

	(dn/dT)rel. ($\times 10^{-6}$℃$^{-1}$)			(dn/dT)abs. ($\times 10^{-6}$℃$^{-1}$)		
(℃)	1548.1	d	g	1548.1	d	g
−40/−20	−4.3	−2.9	0.0	−6.7	−5.4	−2.6
0/+20	−3.2	−1.5	1.8	−5.0	−3.3	−0.1
+40/+60	−3.4	−1.5	2.2	−4.7	−2.9	0.7