751431 K-GIR140	nd	1.75106	ν d	43.1	nF−nC	0.01743
	ne	1.75521	ν e	42.8	nF'−nC'	0.01765

屈 折 率 Refractive Indices

n1548	1548.1	1.72651
n1309	1308.5	1.72913
nt	1014.0	1.73354
nA'	768.2	1.74029
nr	706.5	1.74306
nC	656.3	1.74591
nC'	643.8	1.74672
nD	589.3	1.75091
nd	587.6	1.75106
ne	546.1	1.75521
nF	486.1	1.76334
nF'	480.0	1.76437
ng	435.8	1.77325
nh	404.7	1.78165
ni	365.0	1.79635

分散式の常数 Constants of Dispersion Formula

A0	2.9854628
A1	$-6.5859032 \times 10^{-3}$
A2	2.6407911×10^{-2}
A3	8.4695423×10^{-4}
A4	$-3.2505558 \times 10^{-5}$
A5	3.1878545×10^{-6}

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
0.01237	0.00562	0.00515	0.00930
θ C,t	θ C,A'	θ d,C	θ e,C
0.710	0.322	0.295	0.534
ng−nd	ng−nF	nh−ng	ni−ng
0.02219	0.00991	0.00840	0.02310
θ g,d	θ g,F(Δ)	θ h,g	θ i,g
1.273	0.569 (−0.0040)	0.482	1.325
nC'−nt	ne−nC'	nF'−ne	ni−nF'
0.01318	0.00849	0.00916	0.03198
θ 'C',t	θ 'e,C'	θ 'F',e	θ 'i,F'
0.747	0.481	0.519	1.812

機械的性質 Mechanical Properties

ヌープ硬さ Hk Knoop Hardness	476 (5)
ビッカース硬さ Hv Vickers Hardness	508
摩耗度 Ha Abrasion	200
ヤング率 E ($\times 10^8 N \cdot m^{-2}$) Young's Modulus	832
剛性率 G ($\times 10^8 N \cdot m^{-2}$) Modulus of Rigidity	322
ポアソン比 σ Poisson Ratio	0.294

熱的性質 Thermal Properties

転移点 Tg (℃) Transformation Point	599
屈伏点 At (℃) Yielding Point	638
線膨張係数 α ($\times 10^{-7} ℃^{-1}$) Thermal Expansion	
(−30〜+70℃)	59
(+100〜+300℃)	97
熱伝導率 λ ($W \cdot m^{-1} \cdot K^{-1}$) Thermal Conductivity	0.709
比熱 Cp ($J \cdot kg^{-1} \cdot K^{-1}$) Specific Heat	424

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	4
耐久性(表面法) DW Chemical Durability	1
備考 Remarks	

その他 Other Properties

泡 B Bubbles	
着色度 C Coloration	37/28
比重 S.g Specific Gravity	5.24
生産頻度 PF Production frequency	

内部透過率 τ Internal Transmittance

λ(nm)	3mm	10mm
270		
280	0.291	0.017
290	0.506	0.104
300	0.654	0.244
310	0.721	0.337
320	0.863	0.613
330	0.913	0.740
340	0.945	0.830
350	0.963	0.884
360	0.975	0.922
370	0.984	0.948
380	0.989	0.965
390	0.992	0.976
400	0.995	0.984
420	0.997	0.990
440	0.998	0.995
460	0.998	0.998
480	0.998	0.998
500	0.998	0.998
550	0.998	0.998
600	0.998	0.998
650	0.998	0.998
700	0.998	0.998
800	0.998	0.995
1060	0.998	0.996
1500	0.999	0.999
2000	0.999	0.999

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

D0	5.13×10^{-6}
D1	1.39×10^{-8}
D2	-3.39×10^{-10}
E0	9.92×10^{-7}
E1	9.74×10^{-10}
λ_{TK} (μm)	0.216

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	3.2	4.9	6.9	0.9	2.5	4.5
0/+20	4.7	6.5	8.8	3.0	4.7	7.0
+40/+60	4.5	6.4	8.9	3.2	5.1	7.5