

859330 K-GIR79	nd	1.85920	$\nu$ d	33.0	nF-nC	0.02601
	ne	1.86536	$\nu$ e	32.8	nF'-nC'	0.02640

屈折率 Refractive Indices		
n1548	1548.1	1.82418
n1309	1308.5	1.82768
nt	1014.0	1.83378
nA'	768.2	1.84344
nr	706.5	1.84745
nC	656.3	1.85161
nC'	643.9	1.85279
nD	589.3	1.85897
nd	587.6	1.85920
ne	546.1	1.86536
nF	486.1	1.87762
nF'	480.0	1.87919
ng	435.8	1.89290
nh	404.7	1.90617
ni	365.0	1.93019

分散式の常数 Constants of Dispersion Formula	
A0	3.3309552
A1	$-8.5102025 \times 10^{-3}$
A2	$4.0332166 \times 10^{-2}$
A3	$1.4009819 \times 10^{-3}$
A4	$-1.9888108 \times 10^{-5}$
A5	$7.1174530 \times 10^{-6}$

dn/dTの分散常数 Constants of Dispersion dn/dT abs.	
D0	$7.26 \times 10^{-6}$
D1	$1.60 \times 10^{-8}$
D2	$-2.45 \times 10^{-10}$
E0	$1.26 \times 10^{-6}$
E1	$1.15 \times 10^{-9}$
$\lambda_{TK} (\mu m)$	0.230

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
0.01783	0.00817	0.00759	0.01375
$\theta_{C,t}$	$\theta_{C,A'}$	$\theta_{d,C}$	$\theta_{e,C}$
0.686	0.314	0.292	0.529
ng-nd	ng-nF	nh-ng	ni-ng
0.03370	0.01528	0.01327	0.03729
$\theta_{g,d}$	$\theta_{g,F(\Delta)}$	$\theta_{h,g}$	$\theta_{i,g}$
1.296	0.587 (-0.0017)	0.510	1.434
nC'-nt	ne-nC'	nF'-ne	ni-nF'
0.01901	0.01257	0.01383	0.05100
$\theta'_{C,t}$	$\theta'_{e,C'}$	$\theta'_{F',e}$	$\theta'_{i,F'}$
0.720	0.476	0.524	1.932

機械的性質 Mechanical Properties	熱的性質 Thermal Properties
ヌープ硬さ Hk Knoop Hardness 510 (5)	転移点 Tg (°C) Transformation Point 649
ビッカース硬さ Hv Vickers Hardness 508	屈伏点 At (°C) Yielding Point 705
摩耗度 Ha Abrasion 196	線膨張係数 $\alpha (\times 10^{-7} \text{°C}^{-1})$ Thermal Expansion 73
ヤング率 E ( $\times 10^8 \text{N}\cdot\text{m}^{-2}$ ) Young's Modulus 882	(-30~+70°C) 73 (+100~+300°C) 91
剛性率 G ( $\times 10^8 \text{N}\cdot\text{m}^{-2}$ ) Modulus of Rigidity 342	熱伝導率 $\lambda (\text{W}\cdot\text{m}^{-1}\cdot\text{K}^{-1})$ Thermal Conductivity 0.727
ポアソン比 $\sigma$ Poisson Ratio 0.289	比熱 Cp ( $\text{J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$ ) Specific Heat 426

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 4	着色度 C Coloration (45)/35
耐久性(表面法) DW Chemical Durability 1	比重 S.g Specific Gravity 5.17
備考 Remarks	生産頻度 PF Production frequency

内部透過率 $\tau$ Internal Transmittance		
$\lambda$ (nm)	3mm	10mm
270		
280		
290		
300		
310		
320		
330		
340	0.11 <sub>7</sub>	
350	0.34 <sub>8</sub>	0.03 <sub>0</sub>
360	0.53 <sub>3</sub>	0.12 <sub>2</sub>
370	0.64 <sub>9</sub>	0.23 <sub>7</sub>
380	0.73 <sub>5</sub>	0.35 <sub>8</sub>
390	0.80 <sub>3</sub>	0.48 <sub>2</sub>
400	0.85 <sub>5</sub>	0.59 <sub>4</sub>
420	0.91 <sub>6</sub>	0.74 <sub>6</sub>
440	0.94 <sub>5</sub>	0.82 <sub>9</sub>
460	0.96 <sub>3</sub>	0.88 <sub>2</sub>
480	0.97 <sub>5</sub>	0.91 <sub>8</sub>
500	0.98 <sub>5</sub>	0.95 <sub>1</sub>
550	0.99 <sub>6</sub>	0.98 <sub>8</sub>
600	0.99 <sub>8</sub>	0.99 <sub>6</sub>
650	0.99 <sub>8</sub>	0.99 <sub>5</sub>
700	0.99 <sub>8</sub>	0.99 <sub>6</sub>
800	0.99 <sub>8</sub>	0.99 <sub>7</sub>
1060	0.99 <sub>8</sub>	0.99 <sub>7</sub>
1500	0.99 <sub>8</sub>	0.99 <sub>7</sub>
2000	0.99 <sub>8</sub>	0.99 <sub>7</sub>

屈折率の温度係数 Temperature Coefficients of Refractive Index						
(°C)	(dn/dT)rel. ( $\times 10^{-6} \text{°C}^{-1}$ )			(dn/dT)abs. ( $\times 10^{-6} \text{°C}^{-1}$ )		
	1548.1	d	g	1548.1	d	g
-40/-20	5.2	7.6	10.9	2.8	5.1	8.3
0/+20	6.5	9.2	12.8	4.7	7.3	10.9
+40/+60	6.6	9.4	13.3	5.2	8.0	11.8