

# MP-LAC8-30

# 713-539

$n_d = 1.71330$   $\nu_d = 53.95$   $n_F - n_C = 0.013222$   
 $n_e = 1.71645$   $\nu_e = 53.72$   $n_{F'} - n_{C'} = 0.013337$

屈折率 Refractive Index		
	$\lambda$ (nm)	
$n_t$	1013.98	1.69844
$n_s$	852.11	1.70219
$n_{A'}$	768.19	1.70471
$n_r$	706.52	1.70701
$n_c$	656.27	1.70929
$n_{c'}$	643.85	1.70993
$n_{633}$	632.80	1.71052
$n_D$	589.29	1.71318
$n_d$	587.56	1.71330
$n_e$	546.07	1.71645
$n_F$	486.13	1.72251
$n_{F'}$	479.99	1.72326
$n_g$	435.84	1.72971
$n_h$	404.66	1.73570
$n_i$	365.01	1.74598

化学的性質 Chemical Properties	
$D_W$	1
$D_A$	4
$T_{Blue}$	2
$D_{NaOH}$	1
$D_{STPP}$	2
$D_0$	2
$D_H$	1

内部透過率 Internal Transmittance		
$\lambda$ (nm)	$\tau$ 5mm	$\tau$ 10mm
1550	0.998	0.996
1500	0.998	0.996
1400	0.998	0.996
1300	0.999	0.999
1200	0.999	0.999
1100	0.999	0.998
1060	0.999	0.998
1050	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
830	0.999	0.998
800	0.999	0.999
780	0.999	0.998
750	0.999	0.998
700	0.999	0.998
650	0.999	0.997
600	0.999	0.997
550	0.999	0.998
500	0.998	0.997
480	0.998	0.995
460	0.996	0.993
440	0.995	0.990
420	0.993	0.986
400	0.989	0.977
390	0.984	0.968
380	0.976	0.952
370	0.960	0.922
360	0.930	0.860
350	0.880	0.780
340	0.813	0.660
330	0.710	0.510
320	0.590	0.350
310	0.420	0.170
300	0.340	0.110
290	0.240	0.050
280		

分散式の定数 Constants of dispersion formula	
$A_0$	2.8827498
$A_1$	$-1.5740789 \times 10^{-2}$
$A_2$	$1.7707976 \times 10^{-2}$
$A_3$	$1.0483265 \times 10^{-3}$
$A_4$	$-9.8332811 \times 10^{-5}$
$A_5$	$5.4828685 \times 10^{-6}$

熱的性質 Thermal Properties	
$T_g$ (°C)	582
$T_s$ (°C)	627
$T_{10^{14.5}}$ (°C)	557
$T_{10^{13}}$ (°C)	576
$T_{10^{7.6}}$ (°C)	661
$\alpha_{-30/+70^\circ\text{C}}$ ( $10^{-7}/\text{K}$ )	63
$\alpha_{100/300^\circ\text{C}}$ ( $10^{-7}/\text{K}$ )	79
$\lambda$ [W/(m·K)]	0.913
$C_p$ [kJ/(kg·K)]	0.578

部分分散 Partial dispersions	
$n_c - n_t$	0.010849
$n_d - n_c$	0.004014
$n_F - n_d$	0.009208
$n_g - n_F$	0.007202
$n_{c'} - n_t$	0.011488
$n_e - n_{c'}$	0.007166
$n_{F'} - n_e$	0.006810
$n_g - n_{F'}$	0.006448

機械的性質 Mechanical Properties	
$H_K$	675 (7)
$F_A$	70
$E$ (GPa)	119
$G$ (GPa)	46.0
$\mu$	0.287
$\sigma_b$ (MPa)	107

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8205	$P'_{c,t}$	0.8614
$P_{d,c}$	0.3035	$P'_{d,c}$	0.2531
$P_{e,d}$	0.2384	$P'_{e,d}$	0.2364
$P_{F,e}$	0.4580	$P'_{F,e}$	0.5106
$P_{g,F}$	0.5447	$P'_{g,F}$	0.4834
$P_{h,g}$	0.4527	$P'_{h,g}$	0.4487
$P_{i,h}$	0.7776	$P'_{i,h}$	0.7708

屈折率の温度係数 Thermal coefficient of refractive indices ( $\times 10^{-6}/\text{K}$ )		
(°C)	$dn/dT$ (rel.)	$dn/dT$ (abs.)
-40/-20	4.6	2.3
-20/0	4.5	2.6
0/+20	4.6	2.9
+20/+40	4.6	3.1
+40/+60	4.7	3.4
+60/+80	4.8	3.7

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0227
$\Delta P_{c,A'}$	0.0037
$\Delta P_{g,d}$	-0.0076
$\Delta P_{g,F}$	-0.0064
$\Delta P_{i,g}$	-0.0336

冷却速度による屈折率の変化 Difference of refractive indices by cooling rate	
$\beta_c$	142
$\beta_d$	143
$\beta_F$	143
$\beta_g$	141

光弾性定数 Photoelastic Constant	
$B$ ( $10^{-12}/\text{Pa}$ )	1.78

比重 Specific Gravity	
$d$	3.90

着色度 Coloration Code	
$\lambda 80 (\lambda 70) / \lambda 5$	370/290

着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda \tau 80 / \lambda \tau 5$	352/288

備考 Remarks	
作成 201104	