

# M-LAC8

# 713-539

$n_d = 1.71300$   $\nu_d = 53.94$   $n_F - n_C = 0.013219$   
 $n_e = 1.71615$   $\nu_e = 53.70$   $n_{F'} - n_{C'} = 0.013335$

屈折率 Refractive Index		
	$\lambda$ (nm)	
$n_t$	1013.98	1.69814
$n_s$	852.11	1.70190
$n_{A'}$	768.19	1.70441
$n_r$	706.52	1.70671
$n_c$	656.27	1.70899
$n_{c'}$	643.85	1.70963
$n_{633}$	632.80	1.71022
$n_D$	589.29	1.71288
$n_d$	587.56	1.71300
$n_e$	546.07	1.71615
$n_F$	486.13	1.72221
$n_{F'}$	479.99	1.72296
$n_g$	435.84	1.72941
$n_h$	404.66	1.73539
$n_i$	365.01	1.74567

分散式の定数 Constants of dispersion formula	
$A_0$	2.8817481
$A_1$	$-1.5730804 \times 10^{-2}$
$A_2$	$1.7690493 \times 10^{-2}$
$A_3$	$1.0526690 \times 10^{-3}$
$A_4$	$-9.9093080 \times 10^{-5}$
$A_5$	$5.5248378 \times 10^{-6}$

部分分散 Partial dispersions	
$n_c - n_t$	0.010845
$n_d - n_c$	0.004013
$n_F - n_d$	0.009206
$n_g - n_F$	0.007200
$n_{c'} - n_t$	0.011483
$n_e - n_{c'}$	0.007165
$n_{F'} - n_e$	0.006808
$n_g - n_{F'}$	0.006446

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8204	$P'_{c,t}$	0.8611
$P_{d,c}$	0.3036	$P'_{d,c}$	0.2531
$P_{e,d}$	0.2384	$P'_{e,d}$	0.2364
$P_{F,e}$	0.4580	$P'_{F,e}$	0.5105
$P_{g,F}$	0.5447	$P'_{g,F}$	0.4834
$P_{h,g}$	0.4527	$P'_{h,g}$	0.4487
$P_{i,h}$	0.7775	$P'_{i,h}$	0.7708

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0225
$\Delta P_{c,A'}$	0.0037
$\Delta P_{g,d}$	-0.0077
$\Delta P_{g,F}$	-0.0064
$\Delta P_{i,g}$	-0.0337

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

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
$\alpha_{-30/+70}$ ( $10^{-7}/K$ )	63
$\alpha_{100/300}$ ( $10^{-7}/K$ )	79
$\lambda$ [W/(m·K)]	0.913
$C_p$ [kJ/(kg·K)]	0.578

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

屈折率の温度係数 Thermal coefficient of refractive indices ( $\times 10^{-6}/K$ )		
(°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

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

比重 Specific Gravity	
$d$	3.90

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-LAC8				
Code	713-539				
作成 201104					

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		
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	