

# M-TAC60

# 755-512

$n_d = 1.75501$   $\nu_d = 51.16$   $n_F - n_C = 0.014759$   
 $n_e = 1.75853$   $\nu_e = 50.92$   $n_{F'} - n_{C'} = 0.014897$

屈折率 Refractive Index		
	$\lambda$ (nm)	
$n_t$	1013.98	1.73868
$n_s$	852.11	1.74273
$n_{A'}$	768.19	1.74549
$n_r$	706.52	1.74802
$n_c$	656.27	1.75055
$n_{c'}$	643.85	1.75126
$n_{633}$	632.80	1.75192
$n_D$	589.29	1.75488
$n_d$	587.56	1.75501
$n_e$	546.07	1.75853
$n_F$	486.13	1.76531
$n_{F'}$	479.99	1.76616
$n_g$	435.84	1.77340
$n_h$	404.66	1.78015
$n_i$	365.01	1.79175

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

内部透過率 Internal Transmittance		
$\lambda$ (nm)	$\tau$ 5mm	$\tau$ 10mm
1550	0.996	0.996
1500	0.996	0.996
1400	0.996	0.993
1300	0.998	0.995
1200	0.998	0.995
1100	0.998	0.996
1060	0.998	0.996
1050	0.998	0.996
1000	0.998	0.996
950	0.998	0.996
900	0.997	0.995
850	0.996	0.993
830	0.998	0.996
800	0.999	0.999
780	0.999	0.997
750	0.999	0.998
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.999
500	0.999	0.999
480	0.999	0.998
460	0.998	0.995
440	0.996	0.992
420	0.993	0.987
400	0.988	0.975
390	0.981	0.963
380	0.971	0.943
370	0.953	0.908
360	0.920	0.847
350	0.868	0.754
340	0.796	0.634
330	0.702	0.493
320	0.571	0.326
310	0.409	0.167
300	0.331	0.109
290	0.249	0.062
280	0.138	0.019

着色度 Coloration Code	
$\lambda$ 80 ( $\lambda$ 70) / $\lambda$ 5	380/290
着色度 (内部透過率) Coloration of Internal Transmittance	
$\lambda$ $\tau$ 80 / $\lambda$ $\tau$ 5	355/288

分散式の定数 Constants of dispersion formula	
$A_0$	3.0178660
$A_1$	$-1.5790934 \times 10^{-2}$
$A_2$	$2.1144702 \times 10^{-2}$
$A_3$	$9.3137389 \times 10^{-4}$
$A_4$	$-6.9379914 \times 10^{-5}$
$A_5$	$4.0276200 \times 10^{-6}$

熱的性質 Thermal Properties	
$T_g$ (°C)	622
$T_s$ (°C)	662
$T_{10^{14.5}}$ (°C)	596
$T_{10^{13}}$ (°C)	613
$T_{10^{7.6}}$ (°C)	690
$\alpha_{-30/+70}$ ( $10^{-7}/K$ )	62
$\alpha_{100/300}$ ( $10^{-7}/K$ )	77
$\lambda$ [W/(m·K)]	0.870
$C_p$ [kJ/(kg·K)]	0.500

部分分散 Partial dispersions	
$n_c - n_t$	0.011869
$n_d - n_c$	0.004463
$n_F - n_d$	0.010296
$n_g - n_F$	0.008094
$n_{c'} - n_t$	0.012577
$n_e - n_{c'}$	0.007272
$n_{F'} - n_e$	0.007625
$n_g - n_{F'}$	0.007248

機械的性質 Mechanical Properties	
$H_K$	705 (7)
$F_A$	60
$E$ (GPa)	125
$G$ (GPa)	48.4
$\mu$	0.290
$\sigma_b$ (MPa)	118

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8042	$P'_{c,t}$	0.8443
$P_{d,c}$	0.3024	$P'_{d,c}$	0.2521
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2361
$P_{F,e}$	0.4593	$P'_{F,e}$	0.5118
$P_{g,F}$	0.5484	$P'_{g,F}$	0.4865
$P_{h,g}$	0.4572	$P'_{h,g}$	0.4530
$P_{i,h}$	0.7861	$P'_{i,h}$	0.7788

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	4.5	2.2
-20/ 0	4.6	2.6
0/+20	4.6	2.9
+20/+40	4.7	3.2
+40/+60	4.8	3.5
+60/+80	4.9	3.7

光弾性定数 Photoelastic Constant	
$B$ ( $10^{-12}/Pa$ )	1.55

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0193
$\Delta P_{c,A'}$	0.0038
$\Delta P_{g,d}$	-0.0092
$\Delta P_{g,F}$	-0.0077
$\Delta P_{i,g}$	-0.0452

比重 Specific Gravity	
$d$	4.41

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-TAC60				
Code	755-512				
作成 201104					