

# M-BACD15

## 623-582

$n_d = 1.62263$   $\nu_d = 58.16$   $n_F - n_C = 0.010705$   
 $n_e = 1.62518$   $\nu_e = 57.95$   $n_{F'} - n_{C'} = 0.010788$

屈折率 Refractive Index		
	$\lambda$ (nm)	
$n_t$	1013.98	1.61029
$n_s$	852.11	1.61346
$n_{A'}$	768.19	1.61557
$n_r$	706.52	1.61747
$n_c$	656.27	1.61935
$n_{c'}$	643.85	1.61987
$n_{633}$	632.80	1.62036
$n_D$	589.29	1.62253
$n_d$	587.56	1.62263
$n_e$	546.07	1.62518
$n_F$	486.13	1.63005
$n_{F'}$	479.99	1.63066
$n_g$	435.84	1.63582
$n_h$	404.66	1.64060
$n_i$	365.01	1.64875

化学的性質 Chemical Properties	
$D_W$	2
$D_A$	4
$T_{Blue}$	3
$D_{NaOH}$	1
$D_{STPP}$	2
$D_o$	2
$D_H$	2

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	0.997
1200	0.998	0.997
1100	0.998	0.996
1060	0.998	0.996
1050	0.998	0.996
1000	0.998	0.995
950	0.998	0.995
900	0.998	0.995
850	0.998	0.996
830	0.998	0.996
800	0.998	0.997
780	0.998	0.996
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	0.999
460	0.999	0.999
440	0.999	0.997
420	0.998	0.995
400	0.997	0.993
390	0.995	0.990
380	0.992	0.984
370	0.986	0.971
360	0.972	0.945
350	0.949	0.900
340	0.910	0.828
330	0.848	0.719
320	0.751	0.564
310	0.622	0.386
300	0.499	0.249
290	0.369	0.136
280	0.230	0.053

分散式の定数 Constants of dispersion formula	
$A_0$	2.5909190
$A_1$	$-1.2594760 \times 10^{-2}$
$A_2$	$1.5202050 \times 10^{-2}$
$A_3$	$2.9999800 \times 10^{-4}$
$A_4$	$-1.1315470 \times 10^{-5}$
$A_5$	$9.1546400 \times 10^{-7}$

熱的性質 Thermal Properties	
$T_g$ (°C)	528
$T_s$ (°C)	570
$T_{10^{14.5}}$ (°C)	501
$T_{10^{13}}$ (°C)	520
$T_{10^{7.6}}$ (°C)	612
$\alpha_{-30/+70^\circ\text{C}}$ ( $10^{-7}/\text{K}$ )	63
$\alpha_{100/300^\circ\text{C}}$ ( $10^{-7}/\text{K}$ )	82
$\lambda$ [W/(m·K)]	1.040
$C_p$ [kJ/(kg·K)]	0.742

着色度 Coloring	
$\lambda_{80}(\lambda_{70})/\lambda_5$	350/280
$\lambda_{\tau 0.8}$	337

色度(D <sub>65</sub> ) Chromaticity coordinates	
x	0.313
y	0.330

部分分散 Partial dispersions	
$n_c - n_t$	0.009061
$n_d - n_c$	0.003276
$n_F - n_d$	0.007429
$n_g - n_F$	0.005770
$n_{c'} - n_t$	0.009584
$n_e - n_{c'}$	0.005307
$n_{F'} - n_e$	0.005481
$n_g - n_{F'}$	0.005164

機械的性質 Mechanical Properties	
$H_K$	760 (7)
$F_A$	90
E (GPa)	105
G (GPa)	41.4
$\mu$	0.267
$\sigma_b$ (MPa)	102

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8464	$P'_{c,t}$	0.8884
$P_{d,c}$	0.3060	$P'_{d,c}$	0.2552
$P_{e,d}$	0.2386	$P'_{e,d}$	0.2367
$P_{F,e}$	0.4554	$P'_{F,e}$	0.5081
$P_{g,F}$	0.5390	$P'_{g,F}$	0.4787
$P_{h,g}$	0.4463	$P'_{h,g}$	0.4429
$P_{i,h}$	0.7608	$P'_{i,h}$	0.7549

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	4.8	2.6
-20/ 0	4.8	3.0
0/+20	4.9	3.3
+20/+40	5.0	3.6
+40/+60	5.1	3.8
+60/+80	5.2	4.1

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0288
$\Delta P_{c,A'}$	0.0057
$\Delta P_{g,d}$	-0.0062
$\Delta P_{g,F}$	-0.0045
$\Delta P_{i,g}$	-0.0194

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

光弾性定数 Photoelastic Constant	
B ( $10^{-12}/\text{Pa}$ )	2.29

その他の性質 Other Property	
比重 d	3.02

備考 Remarks	
作成 201004	