

# M-BACD5N

## 589-613

$n_d = 1.58913$   $\nu_d = 61.25$   $n_F - n_C = 0.009619$   
 $n_e = 1.59142$   $\nu_e = 61.03$   $n_{F'} - n_{C'} = 0.009690$

屈折率 Refractive Index		
	$\lambda$ (nm)	
$n_t$	1013.98	1.57792
$n_s$	852.11	1.58084
$n_{A'}$	768.19	1.58276
$n_r$	706.52	1.58449
$n_c$	656.27	1.58618
$n_{c'}$	643.85	1.58665
$n_{633}$	632.80	1.58709
$n_D$	589.29	1.58904
$n_d$	587.56	1.58913
$n_e$	546.07	1.59142
$n_F$	486.13	1.59580
$n_{F'}$	479.99	1.59634
$n_g$	435.84	1.60097
$n_h$	404.66	1.60524
$n_i$	365.01	1.61247

化学的性質 Chemical Properties	
$D_W$	2
$D_A$	4
$T_{Blue}$	2
$D_{NaOH}$	2
$D_{STPP}$	2
$D_0$	3
$D_H$	3

内部透過率 Internal Transmittance		
$\lambda$ (nm)	$\tau$ 5mm	$\tau$ 10mm
1550	0.995	0.990
1500	0.994	0.989
1400	0.991	0.981
1300	0.996	0.992
1200	0.996	0.992
1100	0.996	0.991
1060	0.995	0.990
1050	0.996	0.991
1000	0.996	0.991
950	0.996	0.991
900	0.996	0.992
850	0.996	0.992
830	0.996	0.992
800	0.996	0.993
780	0.997	0.994
750	0.998	0.996
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	0.998
440	0.999	0.997
420	0.998	0.996
400	0.997	0.994
390	0.995	0.990
380	0.992	0.984
370	0.986	0.972
360	0.973	0.946
350	0.949	0.900
340	0.907	0.822
330	0.838	0.702
320	0.731	0.534
310	0.587	0.344
300	0.421	0.177
290	0.264	0.070
280	0.144	0.021

着色度 Coloration Code	
$\lambda$ 80 ( $\lambda$ 70) / $\lambda$ 5	350/290
着色度 Coloration of Internal Transmittance (内部透過率)	
$\lambda$ $\tau$ 80 / $\lambda$ $\tau$ 5	338/287

分散式の定数 Constants of dispersion formula	
$A_0$	2.4895100
$A_1$	$-1.2244960 \times 10^{-2}$
$A_2$	$1.2942620 \times 10^{-2}$
$A_3$	$3.4904490 \times 10^{-4}$
$A_4$	$-1.7772280 \times 10^{-5}$
$A_5$	$9.1137190 \times 10^{-7}$

熱的性質 Thermal Properties	
$T_g$ (°C)	521
$T_s$ (°C)	562
$T_{10^{14.5}}$ (°C)	493
$T_{10^{13}}$ (°C)	514
$T_{10^{7.6}}$ (°C)	604
$\alpha_{-30/+70}$ ( $10^{-7}/K$ )	68
$\alpha_{100/300}$ ( $10^{-7}/K$ )	88
$\lambda$ [W/(m·K)]	1.197
$C_p$ [kJ/(kg·K)]	0.816

部分分散 Partial dispersions	
$n_c - n_t$	0.008264
$n_d - n_c$	0.002948
$n_F - n_d$	0.006671
$n_g - n_F$	0.005168
$n_{c'} - n_t$	0.008736
$n_e - n_{c'}$	0.004771
$n_{F'} - n_e$	0.004919
$n_g - n_{F'}$	0.004625

機械的性質 Mechanical Properties	
$H_K$	600 (6)
$F_A$	90
$E$ (GPa)	98
$G$ (GPa)	38.9
$\mu$	0.254
$\sigma_b$ (MPa)	104

部分分散比 Partial dispersion rates			
$P_{c,t}$	0.8591	$P'_{c,t}$	0.9015
$P_{d,c}$	0.3065	$P'_{d,c}$	0.2555
$P_{e,d}$	0.2386	$P'_{e,d}$	0.2368
$P_{F,e}$	0.4549	$P'_{F,e}$	0.5076
$P_{g,F}$	0.5373	$P'_{g,F}$	0.4773
$P_{h,g}$	0.4436	$P'_{h,g}$	0.4404
$P_{i,h}$	0.7523	$P'_{i,h}$	0.7467

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	3.8	1.6
-20/ 0	3.7	1.9
0/+20	3.7	2.2
+20/+40	3.8	2.4
+40/+60	3.8	2.6
+60/+80	3.9	2.8

光弾性定数 Photoelastic Constant	
$B$ ( $10^{-12}/Pa$ )	2.13

異常分散性 Anomalous dispersions	
$\Delta P_{c,t}$	0.0271
$\Delta P_{c,A'}$	0.0041
$\Delta P_{g,d}$	-0.0014
$\Delta P_{g,F}$	-0.0007
$\Delta P_{i,g}$	-0.0034

比重 Specific Gravity	
$d$	2.82

備考 Remarks					
硝種対照表 Glass Cross Reference Index					
	HOYA	SCHOTT	OHARA	HIKARI	CDGM
Glass Type	M-BACD5N		L-BAL35	Q-SK5S	D-ZK3
Code	589-613		589-612	589-612	589-612
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