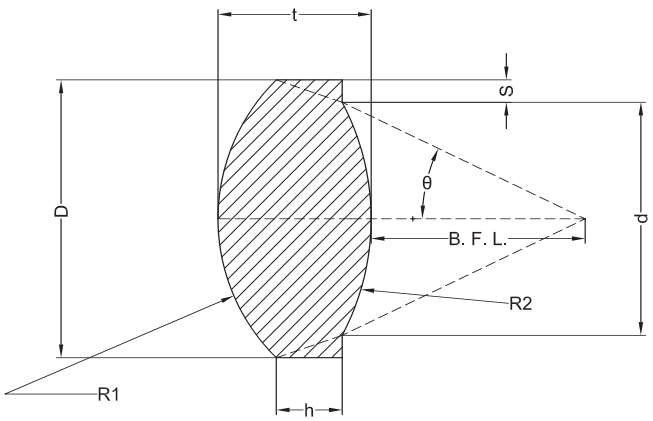

See page 13 for material specification and geometric tollerance

KE170 - Biconvex Lenses Ø 17,00 mm.

Code	Material	D (mm)	d (mm)	S (mm)	t (mm)	h (mm)	Lambda (nm)	EFFL (mm)	BFL (mm)
KE17001B	**PC**	17,00	16,00	0,50	7,00	5,12	587	34,0	29,2
KE17002B	**SAN**	17,00	16,00	0,50	7,00	5,12	587	34,0	29,2
KE17003B	**PC-IR**	17,00	16,00	0,50	7,00	5,12	850	34,9	30,0
KE17004B	**PMMA**	17,00	16,00	0,50	7,00	5,12	587	40,4	35,3
KE17005B	**PMMA-IR**	17,00	16,00	0,50	7,00	5,12	850	40,9	35,8

KE175 - Biconvex Lenses Ø 17,50 mm.

Code	Material	D (mm)	d (mm)	S (mm)	t (mm)	h (mm)	Lambda (nm)	EFFL (mm)	BFL (mm)
KE17501B	**PC**	17,50	16,00	0,75	7,00	5,00	587	35,0	30,1
KE17502B	**SAN**	17,50	16,00	0,75	7,00	5,00	587	35,0	30,1
KE17503B	**PC-IR**	17,50	16,00	0,75	7,00	5,00	850	35,9	31,0
KE17504B	**PMMA**	17,50	16,00	0,75	7,00	5,00	587	41,6	36,4
KE17505B	**PMMA-IR**	17,50	16,00	0,75	7,00	5,00	850	42,2	37,0

KE180 - Biconvex Lenses Ø 18,00 mm.

Code	Material	D (mm)	d (mm)	S (mm)	t (mm)	h (mm)	Lambda (nm)	EFFL (mm)	BFL (mm)
KE18001B	**PC**	18,00	16,50	0,75	7,00	5,00	587	36,0	31,1
KE18002B	**SAN**	18,00	16,50	0,75	7,00	5,00	587	36,0	31,1
KE18003B	**PC-IR**	18,00	16,50	0,75	7,00	5,00	850	36,9	32,0
KE18004B	**PMMA**	18,00	16,50	0,75	7,00	5,00	587	42,8	37,6
KE18005B	**PMMA-IR**	18,00	16,50	0,75	7,00	5,00	850	43,4	38,2

KE185 - Biconvex Lenses Ø 18,50 mm.

Code	Material	D (mm)	d (mm)	S (mm)	t (mm)	h (mm)	Lambda (nm)	EFFL (mm)	BFL (mm)
KE18501B	**PC**	18,50	17,50	0,50	7,00	4,95	587	37,0	32,1
KE18502B	**SAN**	18,50	17,50	0,50	7,00	4,95	587	37,0	32,1
KE18503B	**PC-IR**	18,50	17,50	0,50	7,00	4,95	850	37,9	33,0
KE18504B	**PMMA**	18,50	17,50	0,50	7,00	4,95	587	44,0	38,8
KE18505B	**PMMA-IR**	18,50	17,50	0,50	7,00	4,95	850	44,6	39,3

Material specifications and geometric tollerance

		PC	SAN	PC-IR	PMMA	PMMA-IR
Transmission Factor for transparent material	%	89	89	-	92	-
Refractive index		1.586	1.565	1.586	1.49	1.49
Haze for transparent material	%	< 0.8	< 0.8	-	< 0.5	-
Tensile modulus	MPa	2400	3700	2400	3300	3300
Yeld stress	MPa	65*	70*	65*	77**	77**
Yeld strain	MPa	6.0*	> 2.0*	6.0*	5.5**	5.5**
Glass transition temperature	°C	145	108	148	117	117
Temperature of deflection under load (1.8 Mpa)	°C	124	101	125	98	98
Temperature of deflection under load (0.45 Mpa)	°C	137	103	137	103	
Density	Kg/m3	1200	1070	1200	1190	1190

* 50 mm/min
** 5 mm/min

Geometric Tollerance	
t	t ± 0,05%
R	R ± 3%
D	$D^{+0.00}_{-0,1}$
EFFL	EFFL ± 5%
BFL	BFL ± 5%