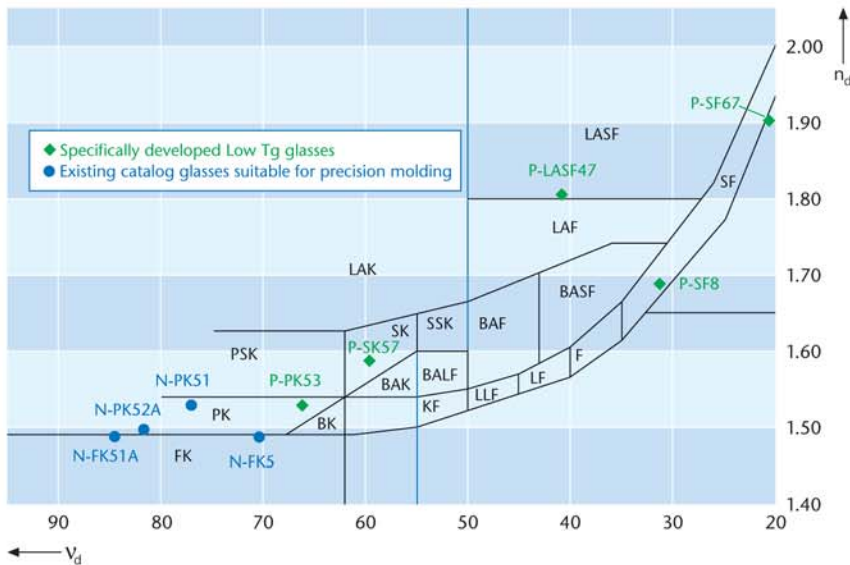


Optical Materials for Precision Molding

Advantages

SCHOTT offers a range of optical glasses specifically developed for precision molding (e. g. aspherical lenses), suitable due to

- Transformation temperatures below 550°C to increase lifetime of molds and to reduce process time
- Low tendency to devitrification
- Low tendency to chemical interaction between glass constituents and mold materials within molding temperature range



Forms of Supply

- Ball lenses
 - Disks
 - Precision gobs
 - Spherical lenses
- (Form of supply depending on glass type)

Detailed material information can be found at Technical Information TIE40 on our website under http://www.us.schott.com/advanced_optics/english/download/

	Catalog values, (before molding) ^{*2}		After molding ^{*3}		Internal transmittance ^{*4}	Color code 80/5	Tg [°C]	AT [°C]	CTE [10 ⁻⁶ K ⁻¹] ^{*5}	SR-J ^{*6}	WR-J ^{*7}	Density [g/cm ³]
	n _d	V _d	n _d	V _d								
P-PK53 ¹⁾	1.52690	66.22	1.5232	66.0	0.994	36/31	383	418	16.0	3	1	2.83
P-SK57 ¹⁾	1.58700	59.60	1.5843	59.4	0.994	34/31	493	522	8.9	4	1	3.01
P-SF8 ¹⁾	1.68893	31.25	1.6814	31.7	0.929	40/36	524	580	11.1	1	1	2.90
P-LASF47 ¹⁾	1.80610	40.90	1.8016	40.8	0.967	39/33	530	580	7.3	3	1	4.54
P-SF67 ¹⁾	1.90680	21.40	1.8998	21.6	0.276	48/39 ^{*5}	539	583	7.4	1	1	4.24
N-FK51A	1.48656	84.47	1.4847	84.2	0.997	34/28	464	490	14.8	3	1	3.68
N-FK5	1.48749	70.41	1.4850	70.2	0.998	30/27	466	557	10.0	5	4	2.45
N-PK52A	1.49700	81.61	1.4952	81.3	0.997	34/28	467	495	15.0	4	1	3.75
N-PK51	1.52855	76.98	1.5267	76.7	0.994	34/29	487	517	14.1	3	1	3.86

^{*1} new developed glasses, ^{*2} catalog values based on 2K/h reference annealing, ^{*3} values measured after SCHOTT molding process for a single part geometry (these values will differ from process to process), ^{*4} at 10mm thickness and 400 nm, ^{*5} value between 20–300°C

^{*6} SR-J = acid resistance according JOGIS, ^{*7} WR-J = water resistance according JOGIS, ^{*8} wavelength for transmittance 0.7 and 0.05

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