Datasheet Plastic Collimator Lens CAY046-034N670[1]

These data concern a full plastic a-spherical lens. It is for use as a collimator in combination with a diode laser. It can be mounted by use of glue or spring-loaded. Mechanical lock-mounting is not advisable because of possible distortions.

Parameters						Unit
Design conditions (670 nm)						
N.A.		0.37				--
Clear Aperture *(Exit Pupil)*		3.4				mm
Clear Aperture *(Entrance Pupil)*		2.6				mm
Optical parameters						
		Wavelength				nm
		546	**632**	**670**	**780**	
Effective Focal Length [1]		4.55	9.87	4.60	4.62	mm
Back Focal Length [1]		3.04	8.46	3.09	3.12	mm
Free Working Distance [1]		2.84	2.85	2.89	2.92	mm
RMS mean [1]	on axis	36	31	30	25	mλ
RMS max. (±3σ) [1]	on axis	49	42	40	34	mλ
Field Radius		0.10				mm
1) Remark: without 4 mm SF11 glass or 1.25 mm BK7 glass						
1) Optical Tolerance		*+/- 0.10*				*mm*
Mechanical parameters						
Mounting hole diameter D_{mh}		∅ 5.50 (+ 0.03)				mm
Lens Thickness		2.70				mm
Optical Eccentricity		< 30				µm
Environmental stability						
Storage Temperature		-25 to 70				°C
Operating Temperature		5 to 65				°C

General Data:		
Transmission [%]:	> 90	(non coated)
Lens Material:		PMMA

[1] Specifications subject to change without notice.

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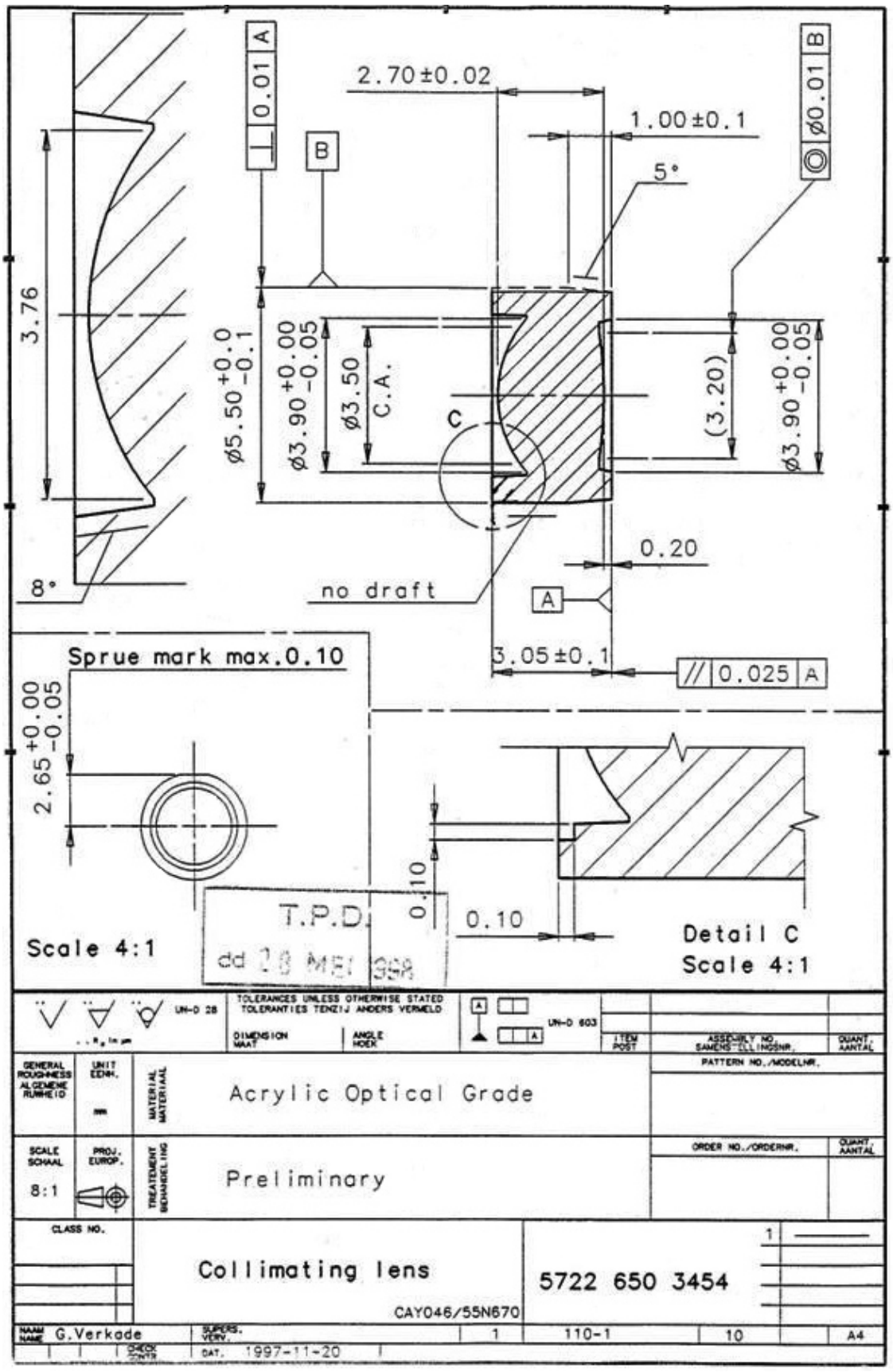

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