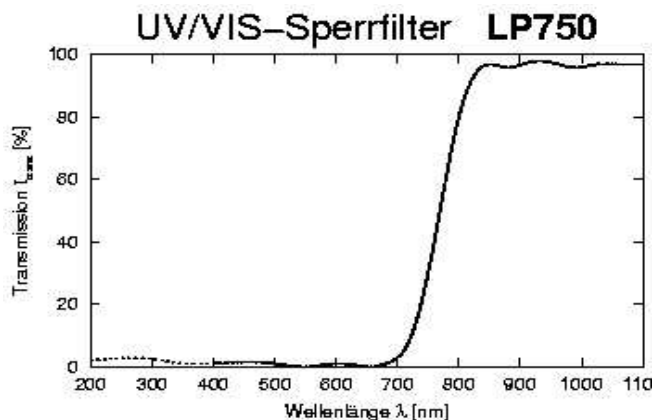


Infrared filter LP-750

For applications in the infrared, EURECA Messtechnik offers the LP-750. The price-performance ratio is much better than for the usually used IR-filter made of glass. This filter is made of synthetic polymer, 1mm thick with optically polished surfaces. At higher quantities other thicknesses are available on request. The polished surface enables the use of the filter also in imaging applications directly in the path of rays.



The location of the value of half transmittance is at 750 nm. This means that the visible light is blocked and infrared light is let through with high transparency. This filter is suitable for applications whose wavelength is at 850 or 880nm, as in high-power-LED-illuminations.

To avoid disturbing reflections, the LP-750 can be put directly on CCD- or CMOS-sensors. For purposes of illumination it is also available with a dimmed anti-reflex coating.

Another advantage of this filter is its simple way of processing: it can get slit to brake it. Another possibility is jet cutting which we offer at larger numbers. Herewith, (almost) every dimension can be realised.

		Test	Unit	Values
Mechanical properties:	Tensile strength	DIN 53455	N/mm ²	65 – 68
	Compressive strength	DIN 53454	N/mm ²	125
	Flexural strength	DIN 53452	N/mm ²	120
	Impact strength	DIN 53453	kJ/mm ²	12
	Modulus of elasticity	DIN 53457	N/mm ²	3000
	Elongation at break	DIN 53455	%	3 – 4
	Hardness	DIN 53456	N/mm ²	175
Thermal Properties:	Heat stability – Vicat	DIN 53460	°C	110
	Forming temperature		°C	150 – 170
	Coefficient of linear thermal expansion	VDE 304	mm/m °C	0,08
	Specific heat		kJ/kg K	1,46
	Thermal conductivity		W/m K	0,186
Electric Properties:	Dielectric strength	DIN 53481	kV/mm	40
	Volume resistivity	DIN 53482	ohm – cm	10 ¹⁵
	Dielectric constant	DIN 53453		3,4
	Dissipation factor	DIN 53453		0,06
Other properties:	Specific gravity	DIN 53479	g/cm ³	1,18 – 1,19
	Water absorption	at 20 °C in 24 h	%	0,17