

Laser protection window, filter - 0242, dimensions 210 x 297 mm, thickness 3.0 mm

Product information:

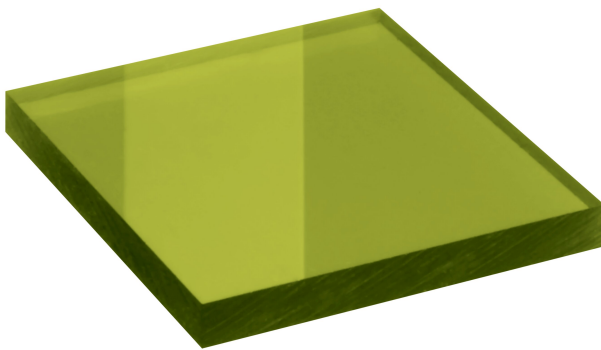
Item no.: 100-K0242-3-210x297

Application: Diode (940 – 980 nm) Yb:YAG/Scheibe (1030 nm) Nd:YAG (1064 nm) Faser
(976 – 1080 nm) , VLT (Visible light transmission): 57 %

Filter color: green

Filter material: special plastic

Laser protection window made of special green plastic suitable for Diode (940 - 980 nm), Yb:YAG/disc (1030 nm), Nd:YAG (1064 nm) and Fiber (976 - 1080 nm) lasers



Qualified protection levels according to EN 12254

Wavelengths	Protection levels
• 180-315	D AB7 + IR AB2 (OD7+)
• >315-355	DIR AB5 (OD10+)
• >355-360	DIR AB5 (OD9+)
• 360-370	DIR AB5 (OD8+)
• >370-420	DIR AB5 (OD7+)
• >420-430	DIR AB5 (OD6+)
• >430-434	DIR AB5 (OD5+)
• >435-443	DIR AB4 (OD4+)
• >443-448	DIR AB3 (OD3+)
• >448-452	DIR AB2 (OD2+)
• >452-461	DIR AB1 (OD1+)
• 710-755	DIRM AB1 (OD1+)
• >755-785	DIRM AB2 (OD2+)
• >785-805	DIRM AB3 (OD3+)
• >805-830	DIRM AB4 (OD4+)
• >830-860	DIRM AB5 (OD5+)
• >860-880	DIRM AB6 (OD6+)
• >880-900	D AB6 + IRM AB7 (OD7+)
• >900-1070	D AB6 + IR AB7 + M AB8 (OD8+)
• >1070-1075	DIRM AB6 (OD6+)
• >1075-1080	DIRM AB5 (OD5+)
• >1080-1090	DIRM AB4 (OD4+)
• >1090-1100	DIRM AB3 (OD3+)
• >1100-1115	DIRM AB2 (OD2+)
• >2225-2456	D AB2 (OD2+)
• >2456-2560	D AB1 (OD1+)
• >2710-2900	D AB1 (OD1+)
• >2900-11000	D AB2 (OD2+)
	PF CE

Specified protection according to EN 60825-4 (power densities):

Wavelength [nm]	Test class	Max. resistance time $t_{\max}$ [s]	Power density [kW/m ²]
860-1070	T3	15	550
860-1070	T2	110	97

Properties:

Laser protection windows enable your employees to safely observe the processes in a laser system. Regardless of whether you want to integrate the laser protection windows in machine enclosures or in movable walls, we offer you the right, tested protection for your laser system, for your laser equipment and for your laser application. Depending on the desired protection level or window size, you can choose between windows made of glass or plastic. In addition to a variety of standard sizes, custom cuts are also possible thanks to our in-house production.

The **0242-3 laser protection filter** is particularly suitable as laser protection for powerful **Diode (940 – 980 nm)**, **Yb:YAG/Disk (1030 nm)**, **Nd:YAG (1064 nm)** and **Fiber (976 – 1080 nm) lasers**. However, other lasers are also covered by the filter. The laser safety filter is made of a special red plastic and has a daylight transmission of approx. 57% at low thickness. The laser safety filter is **qualified** according to the regulations of **EN 12254**.

- dimensions 210 x 297 mm
- also available in the standard size **100 x 200 mm** and maximal size **1000 x 1800 mm**
- other customized sizes available on request
- suitable **window frames** available on request



For a perfect and safe cleaning of this filter we recommend this **cleaning spray**.

