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Röhm Plexiglas



PLEXIGLAS®
for Aircraft Applications

PLEXIGLAS® GS 241
PLEXIGLAS® GS 245

General Aviation

Specially Developed for Aircraft Applications:

PLEXIGLAS® GS 241 PLEXIGLAS® GS 245



Business Unit Röhm Plexiglas of Degussa AG is a leading global manufacturer of acrylics, the best-known brand being PLEXIGLAS®. The extensive portfolio of products for the aviation industry includes the two grades PLEXIGLAS® GS 241 and PLEXIGLAS® GS 245, which were specially developed to meet the requirements for glazing elements in general aviation applications.

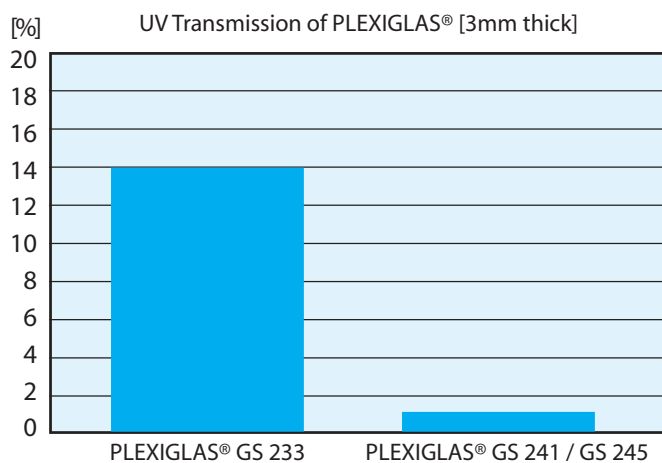
PLEXIGLAS® GS 241 is a grade of cast acrylic tested to high optical standards for glazing that does not specify material certified to any particular aviation standard. PLEXIGLAS® GS 241 is frequently employed in ultralight (ULA) and very light (VLA) aircraft.

PLEXIGLAS® GS 245 is a cast acrylic grade of the highest optical quality, which is tested and certified according to the standards WL 5.1412, AECMA prEN 4364 or DTD 5592A. Its main applications are for glazing in all categories of gliders, motorized aircraft and helicopters.

Both grades transmit approx. 1% of the UV range of the radiation spectrum, a very low value that exceeds the requirements of current aviation standards. This property is continually gaining in importance due to the worldwide increase in UV intensity. Pilots are exposed to particularly high levels, since the UV intensity rises by about 4% every 1,000 feet.

The UV protection offered by a 3mm thick glazing made from PLEXIGLAS® GS 241 and PLEXIGLAS® GS 245 can be compared with a roughly 20mm thick glazing made from standard acrylic (e.g. PLEXIGLAS® GS 233). The thin-walled, monolayer glazing elements used in general aviation strongly require a base material with a high UV filter effect. As an added bonus, the aircraft interior is also protected better against damage caused by UV rays.

For all these reasons, ask for glazing elements and canopies made from PLEXIGLAS® GS 241 and PLEXIGLAS® GS 245!



Test method: EN 2155-4

Sales Range

Grade	Sheet Thickness	Sheet Size (max.)
PLEXIGLAS® GS 241	2 to 6 mm	3050 x 2030 mm
PLEXIGLAS® GS 245	2 to 25 mm	3050 x 2030 mm

Transparent Colors

We offer a selection of transparent colors based on grades PLEXIGLAS® GS 241 and PLEXIGLAS® GS 245. Colored grades based on PLEXIGLAS® GS 245 are supplied with certification according to WL 5.1412. The light transmission (τ_{D65}) of the listed grades does not depend on sheet thickness.

PLEXIGLAS® Grade	τ_{D65}	Typical Applications
PLEXIGLAS® GS Colored, based on 241		
GS Blue 2928	75%	windscreens and primary cockpit windows, glider canopies
GS Green 2942	75%	
GS Gray 2929	74%	
GS Gray 2930	52%	secondary cockpit windows and passenger cabin windows
PLEXIGLAS® GS Colored, based on 245		
GS Blue 2871	78%	windscreens and primary cockpit windows, glider canopies
GS Blue 655	76%	
GS Blue 2421	75%	
GS Green 2422	75%	
GS Gray 2812	74%	
GS Blue 635	62%	secondary cockpit windows and passenger cabin windows
GS Green 715	69%	
GS Green 735	67%	
GS Green 2445	67%	
GS Gray 2970	67%	
GS Gray 2586	62%	
GS Gray 2581	52%	
GS Brown 2587	62%	
GS Umbra 819	56%	
GS Gray 2922	52%	
GS Green 2436	29%	darker tinted grades primarily for sunshades
GS Gray 2084	33%	
GS Gray 2585	25%	
GS Gray 2588	27%	



*Further products we offer
are PLEXIGLAS® GS 249,
PLEXIGLAS® GS 249 Stretched,
EUROPLEX® F and
EUROPLEX® PPSU.
You will find information on
these in our main aviation
brochures.*



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® = registered trademark

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You can obtain the addresses of fabricators of PLEXIGLAS® GS aircraft materials on the following phone/fax numbers:

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