



MOCOM

❖ Alcom® LG Light Guiding Let there be light

Alcom® Light Guiding is a product line for light guide elements based on polycarbonate. With the usual high quality, these products achieve optimum light output and targeted light distribution. Not only can the lighting properties of the material be adapted and changed according to customer requirements.

The demands on lighting technology applications have become more and more complex in the last 20 years - often even compromises have to be made. For this reason we have developed Alcom® LG on the basis of polycarbonate.

This powerful solution combines polymer-specific advantages such as optimal functionality (integration of snap hooks), with excellent optical properties.

By measuring or specifying, among other things, transmission, haze and half power angle, we ensure constant lighting properties at the highest level for all applications. Together with the desired mechanical material properties, Alcom® LG ensures absolutely constant quality in the application. In the Light Guiding segment, numerous

products are already available for a wide range of applications in functional, ambient or search lighting.

We are also happy to develop individual products for your requirements.

Alcom® Light Guiding: the advantages at a glance

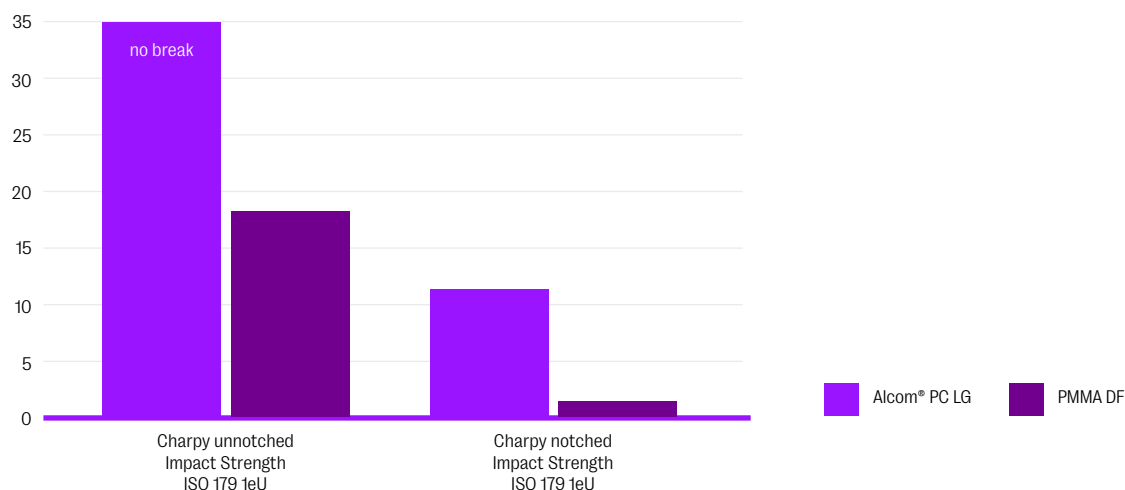
- Optimum light transmission
- Excellent flow characteristics and demoldability
- Good thermal stability
- Flame characteristics according to FMVSS 302 / DIN 75200
- UL-listed or measured based on UL Glow wire rated (GWFI) according to DIN EN 60695 at 850 °C
- Ideal material for 2-component injection molding, e.g. for operating out of polycarbonate

Polymer / Product Series	Material name	Color	Total Transmission T(Y) (d=4.0 mm, A, 2°) ISO 13468	Haze T(Y) (d=4.0 mm, III. A, 2°) ISO 13468	Half Power Angle T(Y) (d=4.0 mm, A, 2°)	MVR 300 ° / 1.2 kg ISO 1133	Sample applications
PC Light Guiding	Alcom® PC 740/4 UV CC1320-08LG	with scatterer	88 %	92,5 %	10 °	20 g / cm ³	Light guides, corona ring, light scatterer lens, lamp cover
	Alcom® PC 740/4 UV CC1321-08LG	with scatterer	87 %	94 %	16 °	20 g / cm ³	Light guides, corona ring, light scatterer lens, lamp cover
	Alcom® PC 740/4 UV CC1322-08LG	with scatterer	84 %	95 %	20 °	20 g / cm ³	Light guides, corona ring, light scatterer lens, lamp cover
	Alcom® PC 740/4 UV CC1323-08LG	with scatterer	77 %	95 %	28 °	20 g / cm ³	Light guides, corona ring, light scatterer lens, lamp cover
	Alcom® LG PC 1000 UV 14094 CC1323-08	with scatterer	77 %	95 %	28 °	28 g / cm ³	Light ledge, lamp cover

Additional products and information are available on request.

Advantages of Alcom® PC LG against PMMA DF

Alcom® PC LG vs. PMMA DF	Alcom® PC 740/4 UV CC132x-08LG	PMMA DF
Flammability	UL94 0.75 - 1.5 mm V-2 1.5 mm HB	UL94 only HB possible
Charpy unnotched Impact Strength ISO 179 eU	no Break	18 k / Jm ²
Charpy notched Strength ISO 179 1eA	12 k / Jm ²	2 k / Jm ²
VICAT B50 ISO 306	124 °C	98 °C
HDT/A 1.80 MPa ISO 75	143 °C	109 °C



MOCOM Compounds GmbH & Co. KG

Mühlenhagen 35 | 20539 Hamburg

T +49 40 78105-720 | sales@mocom.eu

T +49 40 78105-710 | technical@mocom.eu

www.mocom.eu

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