



MOCOM

Alcom® LD Light Diffusion The lighting champion

Alcom® Light Diffusion products ensure homogeneous and efficient light distribution by avoiding annoying hot spots and are the result of decades of experience and development.

This technology, which has not only proven itself in the automotive industry for years and is known under the name Alcom® Light Diffusion, opens up fascinating possibilities in the field of lighting technology.



left: standard material, right: Alcom®

Alcom® LD manages to avoid the hotspots shown in the picture and thus ensures optimal light distribution. In addition, these products enable the harmonization of operating elements in a day- and night design and ensure that illuminated symbols are illuminated regardless of the viewing angle.

Individual color variants, Light Diffusion and transmission rates are also possible. Within the Light Diffusion segment (LD, LD2, LDX, LDM) *, numerous products are already available for a wide range of lighting technology applications.

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

* LD, LD2 = Mainly injection molding applications, LDX = Extrusion applications, LDM = Extrusion with matt surfaces

Alcom® Light Diffusion: the advantages at a glance

- Homogeneous, virtually loss-free light scattering
- Excellent luminous efficiency
- Avoids hot spots
- Sharp contours for illuminated symbols, irrespective of viewing angle
- UL-listed or measured
- based on UL
- Flame characteristics according to FMVSS 302 / DIN 75200
- Comprehensive polymer variations for injection moulding and extrusion
- Corporate color / individual color match variations

Polymer / Product series	Material name	Processing	Color	Total Transmission T(Y) (d=1.0 mm, A, 2°) ISO 13468	Haze T(Y) (d=1.0 mm, Ill. A, 2°) ISO 13468	Half Power Angle T(Y) (d=1.0 mm, A, 2°)	Sample applications
PC Light Diffusion	Alcom® LD2 PC 1000 UV 15003 CC1003-15	IM	with scatterer	67 %	95 %	40 °	Lamp cover
	Alcom® LD2 PC 1000 UV 15003 CC1005-15	IM	with scatterer	80 %	93 %	2 °	Lamp cover
	Alcom® LD2 PC 1000 UV 16059 CC1059-16	IM	with scatterer	70 %	95 %	22 °	Light diffusing panel, light diffuser e.g. BMW
	Alcom® LD2 PC 1000 UV 15061 CC1104-15	IM	with scatterer	79 %	94 %	5 °	Light diffusing panel, light diffuser
	Alcom® PC 740/4.2 WT1159-10LD2	IM	white	20 %	95 %	57 °	Operating element, function display e.g. DAIMLER
	Alcom® LD2 PC 1000 UV 14019 WT1030-14	IM	white	20 %	96 %	56 °	Operating element, function display e.g. FORD
	Alcom® PC 740/4.2 UV WT1090-08LD2	IM	white	23 %	95 %	58 °	Operating element, function display e.g. FORD
	Alcom® PC 740/4 UV WT1081-08LD2	IM	white	39 %	96 %	54 °	Operating element, function display
	Alcom® PC 740/4 UV WT1082-08LD2	IM	white	54 %	95 %	51 °	Operating element, function display
	Alcom® PC 740/4 UV WT1220-05LD	IM	white	57 %	95 %	52 °	Operating element, function display e.g. AUDI
	Alcom® PC 740/4 UV WT1368-04LD	IM	white	74 %	96 %	18 °	Operating element, function display e.g. BENTLEY
	Alcom® PC 740/171 GY1127-05LD	IM	grey	20 %	95 %	50 °	Operating element, function display e.g. OPEL
	Alcom® PC 740/4 UV GY1156-04LD	IM	grey	29 %	95 %	38 °	Operating element, function display
	Alcom® PC 740/4 GY1320-04LD	IM	grey	37 %	95 %	37 °	Operating element, function display e.g. MINI
	Alcom® PC 740/4 RD1123-05LD	IM	red	31 %	91 %	2 °	Lamp cover, operating element e.g. TESLA
	Alcom® PC 740/4 RD1451-06LD	IM	red	5,5 %	95 %	34 °	Climate control unit e.g. BMW
Alcom® PC 740/4 BL1435-07LD	IM	blue	1 %	95 %	56 °	Climate control unit e.g. BMW	
PC Extrusion Light Diffusion	Alcom® LDX PC 1000 UV 14062 WT1140-14	EX	white	70 %	95 %	9 °	Profile, pipes and sheets
	Alcom® PC 730/3.1 UV WT1283-09LDM	EX	white, matt surface	58 % (3 mm)	95 % (3 mm)	34 ° (3 mm)	Profile, pipes and sheets
Light Diffusion master-batches	Alperform® PC LD 0208-15, 5% dosed in PC transparent	IM	whitish	60 %*	95 %*	47 °*	Lamp cover, functional display

Explanation: IM = Injection molding / EX = Extrusion

* Reference value, exact value depends on Polycarbonate grade and color picture.

Additional products and information are available on request.

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