



# MOCOM

## Alcom® LB Light Blocking Controlling the light

**Alcom® Light Blocking ensures precise illumination and controlled light, which enables the grouping of separate light sources in very confined space. With the same energy output, efficiency and luminosity are improved without leaking into neighboring chambers.**

The materials combine the lowest transmission and a high reflection level at extremely thin wall thicknesses – regardless of the base polymer. By measuring and specifying transmission and reflection, we ensure constant lighting properties in all applications. Together with the desired mechanical material properties, we form the basis for your design-oriented application.

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

### Alcom® Light Blocking: the advantages at a glance

- Light transmission values  $< 0.2\%$  for 0.5 mm wall thickness
- Degree of light reflection up to 97 %
- Increased luminous efficiency
- Allows weight reduction and miniaturization of the assembly

Polymer/ Product series	Material name	Color / Characteristics	Tristimulus Value Y10 of Reflection DIN 5033	Tristimulus Value Y10 of Transmission d=0,5 mm ISO 13468	Vicat B 50 ISO 1183	Density ISO 1183	Sample applications
ABS, high heat	Alcom® AWL 10 WT1308-05LB	white	85 %	0.20 %	110 °C	1.11 g / cm <sup>3</sup>	Reflector, LED housing, light guides, control panel
	Alcom® AWL 15/1 WT1471-04LB	white	94 %	0.50 %	110 °C	1.17 g / cm <sup>3</sup>	Reflector, LED housing, light guides, control panel
ABS, PC- modified	Alcom® AWL 109/15 UV WT1217-11LB	white	92 %	0.40 %	109 °C	1.18 g / cm <sup>3</sup>	Reflector, LED housing, light guides, control panel
PBT	Alcom® PBT 700/2 WT 31-956	white	92 %	0.60 %	180 °C	1.44 g / cm <sup>3</sup>	Reflector, LED housing
PC + ABS	Alcom® PC+AWL 750/20.1 WT1407-04LB	white	92 %	0.10 %	120 °C	1.33 g / cm <sup>3</sup>	Reflector, light guides
	Alcom® PC+AWL 750/15.1 WT1378-04LB	white	93 %	0.40 %	125 °C	1.27 g / cm <sup>3</sup>	Reflector, LED housing, function display
PC	Alcom® PWL 10/1.1 WT1302-05LB	white, UL listed	92 %	0.40 %	140 °C	1.36 g / cm <sup>3</sup>	Lamp body, light guides, lamp housing, control panel
	Alcom® LB PC 1000 14073 WT1164-14	white, for Al coating	95 %	3.00 %	140 °C	1.27 g / cm <sup>3</sup>	Coated reflector
	Alcom® PWL 10/1 WT 41-913LB	white, UL listed	97 %	1.40 %	142 °C	1.30 g / cm <sup>3</sup>	Lamp body, light guides, lamp housing, control panel
POM	Alcom® LB POM 1000 18008 WT1005-18	white	90 %	1.00 %	149 °C	1.48 g / cm <sup>3</sup>	Switch housing, button guide
PP	Alcom® PP 620/1 WT1433-05LB	white	87 %	0.30 %	100 °C	1.22 g / cm <sup>3</sup>	Reflector, LED housing, light guides
	Alcom® PP 620/1 WT1034-05LB	white	92 %	0.40 %	104 °C	1.16 g / cm <sup>3</sup>	Reflector, LED housing, light guides

Additional products and information available on request.

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