



### ALCOM LDDC PMMA 1000UV18123 BK1016-11

(Last update: 31.05.2023)

## **M**COM

Base Polymer Polymethylmethacrylate

Filler/Additive System UV stabilised Special Features translucent

Market Segment Automotive, Lighting

Application Area interior decoration / finishing,light transparent components,Black Panel-

Technology

Typical Applications lamp covers, display elements, operating elements

Pre-Drying Conditions 80 °C in a dry air (dessiccant) dryer

for 3-4 h

80 °C in an air circulating dryer

for 4-6 h

max. moisture content <0,02 %

Processing Injection Moulding melt temperature 220-270 °C

mould temperature 50-80 °C

Storage dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3500	MPa	ISO 178
Flexural Strength	100	MPa	ISO 178
Tensile Modulus	3400	MPa	ISO 527
Tensile Strength at Break	78	MPa	ISO 527
Tensile Elongation at Break	4.1	%	ISO 527
Impact Strength (Charpy, 23°C)	20	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	20	kJ/m²	ISO 179/1eU
Thermal Properties			
Vicat B50	110	°C	ISO 306
HDT / A (1,8 MPa)	85	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	5	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	3.8	kg	-
Physical Properties			
Density	1180	kg/m³	ISO 1183
Flammability			
Flammability (1.5 mm)	НВ	class	UL 94

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Print Date: 2025-07-19 05:18:15





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Glow Wire (GWFI, 650°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695
Optical Properties			
Total Transmission T(Y) (d=1,0mm, A, 2°)	34.5	%	ISO 13468
Total Transmission T(Y) (d=2,0mm, A, 2°)	12	%	ISO 13468
Total Transmission T(Y) (d=3,0mm, A, 2°)	4.5	%	ISO 13468
Haze T(Y) (d=1,0 mm, A, 2°)	11	%	ISO 13468
Haze T(Y) (d=2,0 mm, A, 2°)	21	%	ISO 13468
Haze T(Y) (d=3,0 mm, A, 2°)	28	%	ISO 13468
Half Power Angle T(Y) (d=1,0mm, A, 2°)	1	0	-

#### **Liability Exclusion**

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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