LUZ NEGRA
linear lighting solutions

Canovelles, June 2025

DECLARATION OF CONFORMITY

Address:	Luz Negra, S.L. C/Carles Buhigues 13, Polígono Industrial Can Castells, 08420 Canovelles (Barcelona), Spain
Manufactured by:	Luz Negra, S.L.
Code / Reference:	**18.179 / 18.178**
Model:	**Frosted methacrylate easy-on IP65 cover with UV protection (L= 2m / L=6m)**

We declare under our responsibility that the mentioned products have undergone the relevant tests and that they comply with the CE regulations in accordance with the European directives and the required standards.

Characteristics

ALTUGLAS™ Impact acrylic resin has exceptional impact resistance combined with key PMMA properties, for a higher quality appearance compared to any other impact resistant material available. It offers 2 to 10 times the impact resistance of standard products, while maintaining outstanding optical performances (90 to 92% LT / 2% max haze), and PMMA weathering and ageing resistance.

Main characteristics:

- Very high heat resistance (100 °C In Vicat B50).
- Good impact resistance
- Excellent UV resistance.

Physical	Nominal Value		Test Method
Density	1.15	g/cm^3	ISO 1183
Melt Mass-Flow Rate (MFR) (230ºC/3.8 kg)	0.9	g/10 min	ISO 1133
Molding Shrinkage-Flow	0.20 to 0.80	%	ASTM D955
Water Absorption			ISO 62
73ºF (23ºC), 24h	0.16	%	
Equilibrium, 73ºF (23ºC), 50% RH	0.36	%	

Impact	Nominal Value		Test Method
Charpy Notched Impact Strenght (23ºC)	7.0	KJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strenght (23ºC)	60	KJ/m^2	ISO 179/1eU
Notched Izod Impact Strenght (23ºC)	6.3	KJ/m^2	ISO 180/1A

LUZ NEGRA
linear lighting solutions

Canovelles, June 2025

CERTIFICATE

Mechanical	Nominal Value		Test Method
Compressive Stress (23ºC)	45	MPa	ISO 604
Tensile stress			ISO 527-2/50
Yield	50.0	MPa	
Break	46.0	MPa	
Stress Strain			ISO 527-2/50
Yield	5.0	%	
Break	52	%	
Flexural Modulus	1700	MPa	ISO 178
Flexural Stress	62.0	Mpa	ISO 178

Thermal	Nominal Value		Test Method
Heat Deflection Temperature			
264 psi (0.45 MPa), Annealed	93	ºC	ISO 75-2/B
264 psi (1.8 MPa), Annealed	88	ºC	ISO 75-2/A
Vicat softening Temperature	>98	ºC	ISO 306/B
CLTE-Flow (-30 to 23ºC)	1.0E-4	cm/cm/ºC	ASTM D696
Specific Heat	2090	J/kg/ºC	

Hardness	Nominal Value	Test Method
Rockwell Hardness (M-Scale)	46	ASTM D785

Flammability	Nominal Value	Test Method
Flame Rating		UL94
0.06 in (1.5 mm)	HB	
0.12 in (3.0 mm)	HB	

Optical	Nominal Value		Test Method
Refractive Index	1.490		ISO 489
Transmittance	90.0	%	ASTM D1003
Haze	2.0	%	ASTM D1003

LUZ NEGRA
linear lighting solutions

Canovelles, June 2025

CERTIFICATE

UL certificate

Flammability	Value	Test Method
Flame Rating		UL94
1.5 mm, NC	HB	
3.0 mm, NC	HB	
Flammability		IEC 60695-11-10, -20
1.5 mm, NC	HB40	
3.0 mm, NC	HB75	

Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL746
1.5 mm, NC	PLC 3	
3.0 mm, NC	PLC 3	
High Amp Arc Ignition (HAI)		UL746
1.5 mm, NC	PLC 0	
3.0 mm, NC	PLC 0	

Thermal	Value	Test Method
RTI Elec		UL746
1.5 mm, NC	80.0ºC	
3.0 mm, NC	80.0ºC	
RTI Imp		UL746
1.5 mm, NC	80.0ºC	
3.0 mm, NC	80.0ºC	
RTI Str		UL746
1.5 mm, NC	80.0ºC	
3.0 mm, NC	80.0ºC	

The product described has been tested according to the standards listed above.
It is possible to use the CE marking.

The certificate is issued under the responsibility of the manufacturer (data issued by the manufacturer).

For the record and at request of the interested party, this certificate has been issued.

CE UL

Nuño Téllez
CEO

LUZ NEGRA, SL
Carles Buhigues, 13 – Poligono Can Castells
08420 Canovelles
Telf: +34 938 402 598
CIF: B60155959