

DECLARATION OF CONFORMITY

Address: Luz Negra, S.L.
C/Carles Buigues 13,
Polígono Industrial Can Castells,
08420 Canovelles (Barcelona) Spain

Manufacturer: Luz Negra, S.L.

Code / Reference: **18.066 / 18.162**

Model: **TRANSPARENT POLYCARBONATE COVER IP60
FOR LED PROFILE HARMONY (L = 3m / 2m)**

We declare under our responsibility, that the above mentioned products have been tested and comply with CE regulations according to European directives and the following required standards.

Technical product features

General

Material	Polycarbonate - Panlite® L-1250Z100
Features	Weather Resistant grade
Appearance	Clear / Transparent

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MVR) (300°C/1.2 kg)	8.0	cm ³ /10 min	ISO 1133
Molding Shrinkage-Flow	0.50 to 0.70	%	ISO 294-4
Water Absorption (23°C), 24h	0.20	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile stress			ISO 527-2/50
Yield	61.0	MPa	
Break	54.0	MPa	
Stress Strain			ISO 527-2/50
Yield	6.0	%	
Break	>50	%	
Flexural Modulus	2350	MPa	ISO 178
Flexural Stress	93.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	76	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa), Unannealed	129	°C	ISO 75-2/A
CLTE-Flow	7.0E-5	cm/cm/°C	ISO 11359-2
RTI Elec (1.5mm)	125	°C	UL 746
RTI Imp (1.5mm)	115	°C	
RTI Str (1.5mm)	125	°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	>1.0E+15	ohms	IEC 60093
Volume Resistivity	>1.0E+15	ohms·cm	
Electric Strength	30	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.10		
1 MHz	3.00		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	9.0E-3		
Comparative Tracking Index	250	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL94
1.5 mm	HB		
0.4 mm	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
1.5 mm	825	°C	
3.0 mm	875	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.5 mm	850	°C	
3.0 mm	850	°C	

Optical	Nominal Value	Unit	Test Method
Refractive Index	1.585		ASTM D542
Transmittance	88	%	ASTM D1003

LVD Certificate

Certificate number:

- BST1703504970001Y-1SC-2

Applicable standards:

- EN 60838-1:2004+A1:2008+A2:2011

Directive:

2014/35/EU - Low Voltage Directive

RoHS Certificate

Certificate number:

- BST1703504970001Y-1RC-4

Applicable standards:

- IEC 62321-4:2013
- IEC 62321-5:2013
- IEC 62321-6:2015
- IEC 62321-7-1:2015

Directive:

2011/65/EU

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.



Nuño Tellez
CEO

Canovelles, August 2024



LUZ NEGRA, SL

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