

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: **18.191/ 18.192**

Model: **Frosted polycarbonate cover for recessing easy-on IP65 (L = 2m / 6m)**

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.

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage-Flow	0.50 to 0.70	%	ISO 294-4
Water Absorption			ISO 62
73°F (23°C), 24h	0.15	%	
Equilibrium, 73°F (23°C), 50% RH	0.32	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/50
Tensile stress			ISO 527-2/50
Yield	62.0	MPa	
Break	66.0	MPa	
Stress Strain			ISO 527-2/50
Yield	6.0	%	
Break	90	%	
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	94.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strenght			ISO 179/1eA
-22°F (-30°C)	16	KJ/m ²	
73°F (23°C)	55	KJ/m ²	
Notched Izod Impact Strenght			ISO 180/A
-22°F (-30°C)	15	KJ/m ²	
73°F (23°C)	80	KJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
66 psi (0.4 MPa), Annealed	145	°C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	126	°C	ISO 75-2/A
264 psi (1.8 MPa), Annealed	142	°C	ISO 75-2/A
Vicat softening Temperature	150	°C	ISO 306/B50
CLTE-Flow	7.0E-5	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index			ISO 60112
0.0787 in (2.00 mm), Solution A	250	V	

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL94
0.06 in (1.5 mm)	HB		
0.12 in (3.0 mm)	HB		
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in (1.0 mm)	900	°C	
0.08 in (2.0 mm)	875	°C	
0.12 in (3.0 mm)	875	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.04 in (1.0 mm)	775	°C	
0.08 in (2.0 mm)	775	°C	
0.12 in (3.0 mm)	775	°C	

Optical	Nominal Value	Unit	Test Method
Refractive Index	1.586		ISO 489
Transmittance	89.0	%	ASTM D1003
Haze	1.0	%	ASTM D1003

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
High Amp Arc Ignition (HAI)		UL746
1.5 mm, NC	HPLC 0	
3.0 mm, NC	HPLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL746
Dielectric Strength	17kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL746
Volume Resistivity	1.0E+15 ohms·cm	ASTM D257
Volume Resistivity	1.0E+15 ohms·cm	IEC 60093
Arc Resistance	PLC 5	ASTM D495
Electric Strength	17kV/mm	IEC 60243-1

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

Physical	Value	Test Method
Dimensional stability	0.0%	ASTM D1042
Dimensional stability	0.0%	ISO 2796

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



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