

DECLARATION OF CONFORMITY

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

Manufactured by: Luz Negra, S.L.

Code / Reference: **18.002 / 18.005**

Model: **Opal polycarbonate cover easy-on IP65
(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.

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.20	g/cm ³	1.20	g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	3.0	g/10 min	3.0	g/10 min	ISO 1133
Molding Shrinkage-Flow	5.0E-3 to 7.0E-3	in/in	0.50 to 0.70	%	ISO 294-4
Water Absorption					ISO 62
73°F (23°C), 24h	0.15	%	0.15	%	
Equilibrium, 73°F (23°C), 50% RH	0.32	%	0.32	%	

Mechanical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Tensile Modulus	334000	psi	2300	MPa	ISO 527-2/50
Tensile stress					ISO 527-2/50
Yield	8990	psi	62.0	MPa	
Break	9570	psi	66.0	MPa	
Stress Strain					ISO 527-2/50
Yield	6.0	%	6.0	%	
Break	90	%	90	%	
Flexural Modulus	334000	psi	2300	MPa	ISO 178
Flexural Stress	13600	psi	94.0	Mpa	ISO 178

Impact	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Charpy Notched Impact Strenght					ISO 179/1eA
-22°F (-30°C)	7.6	ft·lb/in ²	16	KJ/m ²	
73°F (23°C)	26	ft·lb/in ²	55	KJ/m ²	
Notched Izod Impact Strenght					ISO 180/A
-22°F (-30°C)	7.1	ft·lb/in ²	15	KJ/m ²	
73°F (23°C)	38	ft·lb/in ²	80	KJ/m ²	

Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Heat Deflection Temperature					
66 psi (0.4 MPa), Annealed	293	°F	145	°C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	259	°F	126	°C	ISO 75-2/A
264 psi (1.8 MPa), Annealed	288	°F	142	°C	ISO 75-2/A
Vicat softening Temperature	302	°F	150	°C	ISO 306/B50
CLTE-Flow	3.9E-5	in/in/°F	7.0E-5	cm/cm/°C	ISO 11359-2

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

Flammability	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Flame Rating					UL94
0.06 in (1.5 mm)	HB		HB		
0.12 in (3.0 mm)	HB		HB		
Glow Wire Flammability Index					IEC 60695-2-12
0.04 in (1.0 mm)	1650	°F	900	°C	
0.08 in (2.0 mm)	1610	°F	875	°C	
0.12 in (3.0 mm)	1610	°F	875	°C	
Glow Wire Ignition Temperature					IEC 60695-2-13
0.04 in (1.0 mm)	1430	°F	775	°C	
0.08 in (2.0 mm)	1430	°F	775	°C	
0.12 in (3.0 mm)	1430	°F	775	°C	

Optical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Refractive Index	1.586		1.586		ISO 489
Transmittance	89.0	%	89.0	%	ASTM D1003
Haze	1.0	%	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 Téllez
 CEO


