

Canovelles, September 2026

The company Mercantil Luz Negra, S.L. with registrated office in
 C/Carles Buhigues 13, Polígono Industrial Can Castells, 08420 Canovelles (Barcelona, Spain)

CERTIFIES

That the following products described below have carried out the relevant technical tests according to the data:

Product reference: **18.075**
 Product name: **Transparent micropismatic polycarbonate cover easy-on**

UL rated HB. Non-halogenated, with internal mould release and UV stabilisation for outdoor and lighting applications. The material has an MFR of 7.0 and is intended for thicker sections without sink marks.

MECHANICAL PROPERTIES

Property	Typical Value	Unit	Standard
Taber Abrasion, CS-17, 1 kg	10	mg/1000 cy	-
Tensile Stress, yield, 50 mm/min	63	MPa	ISO 527
Tensile Stress, break, 50 mm/min	70	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	6	%	ISO 527
Tensile Strain, break, 50 mm/min	120	%	ISO 527
Tensile Modulus, 1 mm/min	2350	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	90	MPa	ISO 178
Flexural Modulus, 2 mm/min	2300	MPa	ISO 178
Ball Indentation Hardness, H358/30	95	MPa	ISO 2039-1

IMPACT PROPERTIES

Property	Typical Value	Unit	Standard
Izod Impact, unnotched, +23°C	No Break	kJ/m ²	ISO 180/1U
Izod Impact, unnotched, -30°C	No Break	kJ/m ²	ISO 180/1U
Izod Impact, notched, +23°C	70	kJ/m ²	ISO 180/1A
Izod Impact, notched, -30°C	12	kJ/m ²	ISO 180/1A
Charpy, V-notch, 23°C	75	kJ/m ²	ISO 179/1eA
Charpy, V-notch, -30°C	15	kJ/m ²	ISO 179/1eA
Charpy, unnotched, 23°C	No Break	kJ/m ²	ISO 179/1eU
Charpy, unnotched, -30°C	No Break	kJ/m ²	ISO 179/1eU
Charpy Impact, notched, 23°C	35	kJ/m ²	ISO 179/2C

THERMAL PROPERTIES

Property	Typical Value	Unit	Standard
Thermal Conductivity	0.2	W/m·°C	ISO 8302
CTE, 23°C to 80°C, flow	7×10^{-5}	1/°C	ISO 11359-2
Ball Pressure Test, 125°C ± 2°C	PASSES	-	IEC 60695-10-2
Ball Pressure Test, approximate maximum	140	°C	IEC 60695-10-2
Vicat Softening Temp., Rate B/50	144	°C	ISO 306
Vicat Softening Temp., Rate B/120	145	°C	ISO 306
HDT/Be, 0.45 MPa	138	°C	ISO 75/Be
HDT/Ae, 1.8 MPa	127	°C	ISO 75/Ae
Relative Temp. Index, Electrical	130	°C	UL 746B
Relative Temp. Index, Mechanical w/ impact	130	°C	UL 746B
Relative Temp. Index, Mechanical w/o impact	130	°C	UL 746B

PHYSICAL PROPERTIES

Property	Typical Value	Unit	Standard
Mold Shrinkage on Tensile Bar, flow	0.5–0.7	%	-
Density	1.2	g/cm³	ISO 1183
Water Absorption, 23°C/saturated	0.35	%	ISO 62-1
Moisture Absorption, 23°C / 50% RH	0.15	%	ISO 62
Melt Volume Rate, MVR at 300°C/1.2 kg	6	cm³/10 min	ISO 1133

OPTICAL PROPERTIES

Property	Typical Value	Unit	Standard
Light Transmission, 2.54 mm	88–90	%	ASTM D1003
Haze, 2.54 mm	<0.8	%	ASTM D1003
Refractive Index	1.586	-	ISO 489

ELECTRICAL PROPERTIES

Property	Typical Value	Unit	Standard
Volume Resistivity	>1.E+15	Ohm-cm	IEC 60093
Surface Resistivity, ROA	>1.E+15	Ohm	IEC 60093
Dielectric Strength, in oil, 3.2 mm	17	kV/mm	IEC 60243-1

ELECTRICAL PROPERTIES

Property	Typical Value	Unit	Standard
Relative Permittivity, 1 MHz	2.7	-	IEC 60250
Dissipation Factor, 50/60 Hz	0.001	-	IEC 60250
Dissipation Factor, 1 MHz	0.01	-	IEC 60250
Relative Permittivity, 50/60 Hz	2.7	-	IEC 60250

FLAME CHARACTERISTICS

Property	Typical Value	Unit	Standard
UL Recognized, 94HB Flame Class Rating	0.75	mm	UL 94
UL Recognized, 94HB Flame Class Rating, 2nd value	3	mm	UL 94
Glow Wire Flammability Index 850°C, passes at	1	mm	IEC 60695-2-12
Oxygen Index (LOI)	25	%	ISO 4589

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

Nuño Téllez
CEO



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