

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: **18.139 - 18.140**
Product name: **Frosted polycarbonate cover**

PRODUCT INFORMATION

TRIEX 3027U(M1) is a polycarbonate resin grade with high low-temperature impact strength combined with superior mechanical and physical properties. It offers superior low-temperature impact resistance, good flowability, high electrical performance, good dimensional stability, low moisture absorption and good weather resistance.

It is used for corrugated/multi-wall sheet and profile extrusion. UV stabilized. High viscosity. Transparent colors only.

PHYSICAL PROPERTIES

Property	Typical Value	Unit	Standard
Specific Gravity	1.20	-	ASTM D792
Water Absorption, 24 hours at 23°C	0.15	%	ASTM D570
Melt Flow Rate, 300°C/1.2 kg	2	g/10 min	ASTM D1238

MECHANICAL PROPERTIES

Property	Typical Value	Unit	Standard
Tensile Strength at yield	710	kgf/cm ²	ASTM D638
Tensile Elongation at break	100	%	ASTM D638
Flexural Strength at yield	920	kgf/cm ²	ASTM D790
Flexural Modulus	21,000	kgf/cm ²	ASTM D790
Izod Impact Strength, notched, 23°C (1/8")	85	kgf·cm/cm	ASTM D256
Rockwell Hardness	-	R scale	ASTM D785

THERMAL PROPERTIES

Property	Typical Value	Unit	Standard
HDT, 18.6 kgf/cm ²	132	°C	ASTM D648
Coefficient of Linear Thermal Expansion	5-7 × 10 ⁻⁵	mm/mm/°C	ASTM D696

ELECTRICAL PROPERTIES

Property	Typical Value	Unit	Standard
Volume Resistivity	4×10^{16}	$\Omega \cdot \text{cm}$	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Dielectric Constant	-	-	ASTM D150
Dissipation Factor	-	-	ASTM D150
ARC Resistance	120	sec	ASTM D495

FLAME / OTHER PROPERTIES

Property	Typical Value	Unit	Standard
UL-94 Flammability, 1/16" thickness	V-2	-	UL 94
Haze	0.4	-	ASTM D1003

FLAME CHARACTERISTICS

Property	Typical Value	Unit	Standard
UL Recognized, 94V-2 Flame Class Rating	0.50	mm	UL 94
UL Recognized, 94V-2 Flame Class Rating	1.5	mm	UL 94
UL Recognized, 94V-2 Flame Class Rating	3.0	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating	6.0	mm	UL 94

ELECTRICAL / IGNITION PROPERTIES

Property	Typical Value	Unit	Standard
Hot Wire Ignition, 1.5 mm	2	PLC Code	UL
Hot Wire Ignition, 3.0 mm	0	PLC Code	UL
Hot Wire Ignition, 6.0 mm	1	PLC Code	UL
High Ampere Arc Ignition, 1.5 mm	0	PLC Code	UL
High Ampere Arc Ignition, 3.0 mm	0	PLC Code	UL
High Ampere Arc Ignition, 6.0 mm	0	PLC Code	UL
CTI	2	PLC Code	UL
HVTR	2	PLC Code	UL
D495	6	PLC Code	UL

RELATIVE TEMPERATURE INDEX

Property	Typical Value	Unit	Standard
RTI Electrical, 0.50 mm	80	°C	UL
RTI Mechanical with Impact, 0.50 mm	80	°C	UL
RTI Mechanical Strength, 0.50 mm	80	°C	UL
RTI Electrical, 1.5 mm	125	°C	UL
RTI Mechanical with Impact, 1.5 mm	115	°C	UL
RTI Mechanical Strength, 1.5 mm	125	°C	UL
RTI Electrical, 3.0 mm	125	°C	UL
RTI Mechanical with Impact, 3.0 mm	115	°C	UL
RTI Mechanical Strength, 3.0 mm	125	°C	UL
RTI Electrical, 6.0 mm	125	°C	UL
RTI Mechanical with Impact, 6.0 mm	115	°C	UL
RTI Mechanical Strength, 6.0 mm	125	°C	UL

ADDITIONAL UL PROPERTIES

Property	Typical Value	Unit	Standard
Dielectric Strength	31	kV/mm	UL Yellow Card
UL File Number	E121254	-	UL

PROCESSING CONDITIONS

Property	Typical Value	Unit	Standard
Drying Temperature	120	°C	-
Drying Time	3–5	hr	-
Moisture Content, Max.	0.02	%	-
Melt Temperature	265–300	°C	-
Nozzle Temperature	265–300	°C	-
Front Temperature	265–290	°C	-
Middle Temperature	250–275	°C	-
Rear Temperature	235–260	°C	-
Mold Temperature	65–105	°C	-
Back Pressure	0.25–0.7	MPa	-
Screw Speed	40–70	rpm	-
Vent Depth	0.02–0.08	mm	-

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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