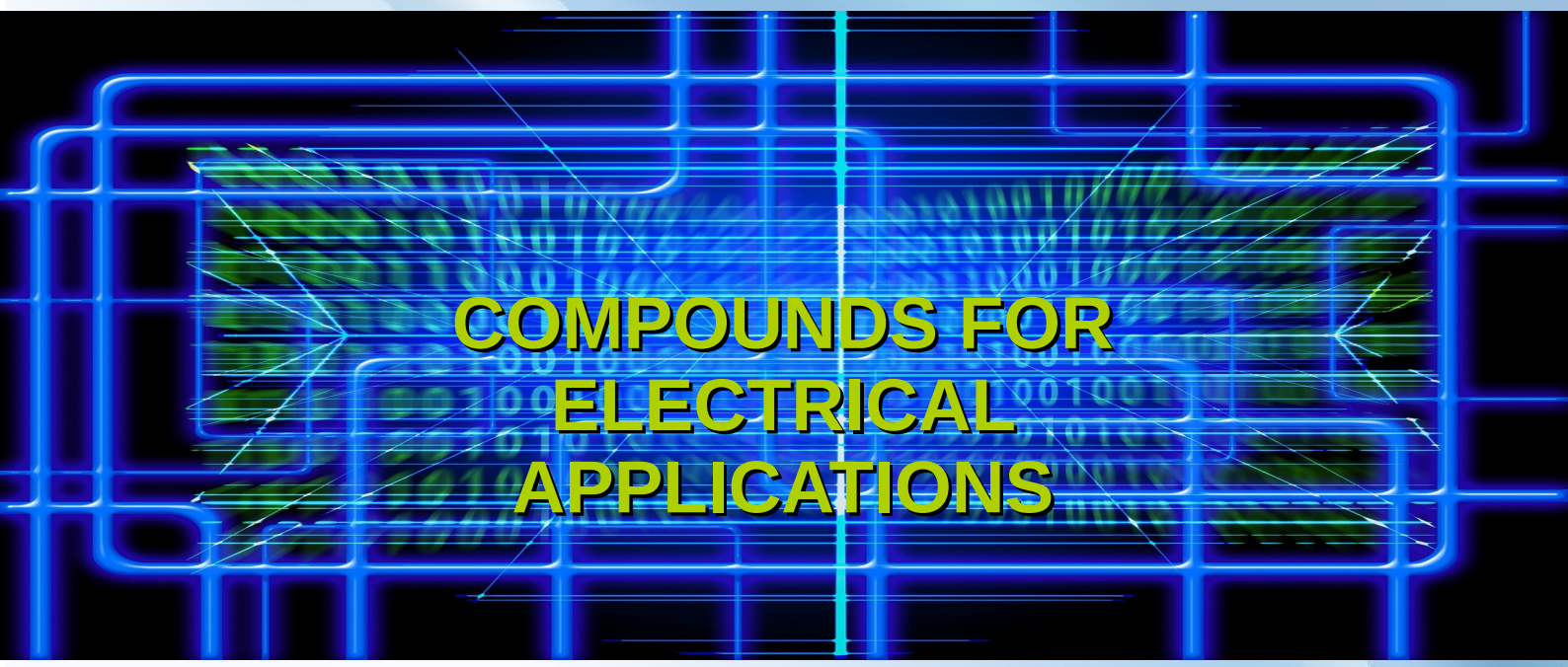


COMPOUNDS FOR ELECTRICAL APPLICATIONS

DUE OOO

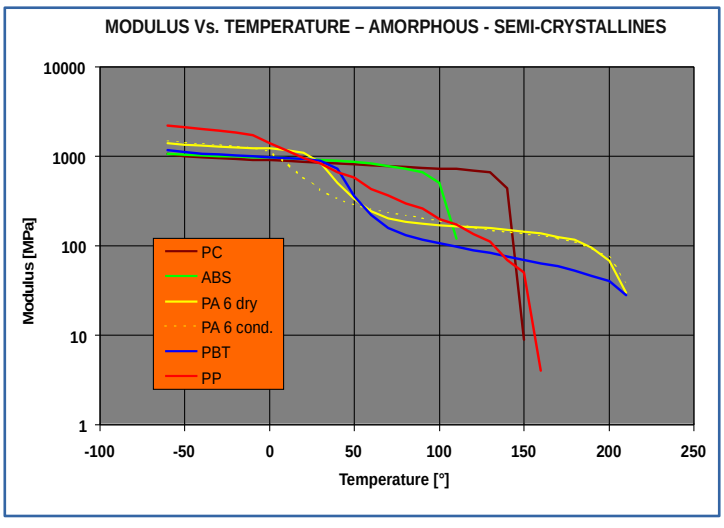
A strong passion that became a solid reality

2Mila Compounds are tailor made products for different applications in **Electrical, Lighting and Appliances** market segments. They are based mainly on Amorphous polymers which have a long-lasting tradition in the Electrical and Electronic market thanks to their predictable behaviors. Characteristics which are welcomed in every electric related production.

Amorphous materials are not influenced by moisture as the semi-crystalline and have a good resistance to harsh environments, particularly where impact is at the top of the needs list. The “Amorphous” are widely and successfully used in several Electrical parts such as: **junction boxes**, **connectors**, **enclosures**, **meter housings** and electrical **control gear covers**. 2Mila Srl has matured a long experience in these Compounds and has developed specific product grades able to satisfy all key OEM requirements, including the economics. In these specific technical fields **dimensional stability** and **thermal properties** are usually interdependent.

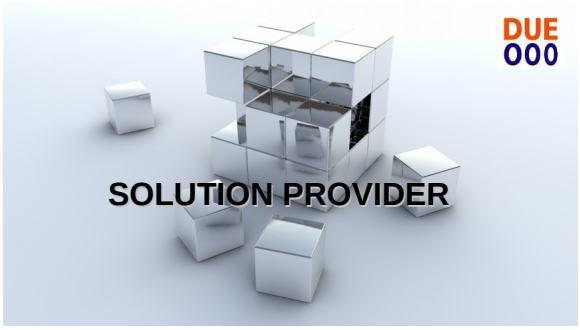
“Tell us your Needs, we are ready to catch them”

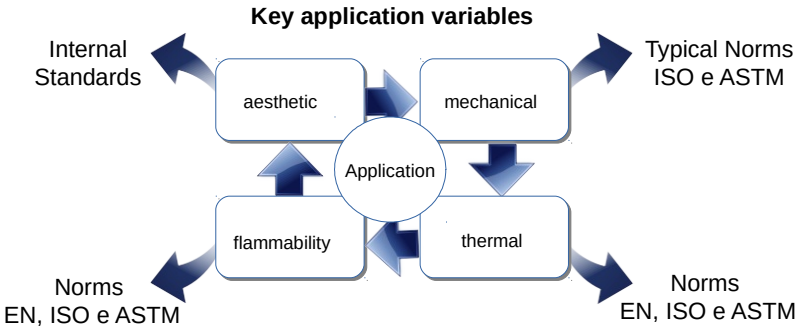
The working temperature is for plastic materials a critical aspect and is strictly linked to the type of service the final part should perform in its life. As a natural fact Amorphous polymers have predictable behaviors in temperature. Their characteristics are not influenced by other external factors (e.g. moisture).
Their stability, up to the Tm (Melting Temperature), is an important feature for designers and engineers. The graph shows the thermal behavior of some standard Amorphous, unreinforced materials, in comparison with other common unreinforced Semi-Crystalline polymers. Of course Semi-Crystalline can greatly improve their modulus in temperature behaviors, with the addition of fillers and reinforcements (eg. Glass fibres) and are less sensitive to chemicals than the Amorphous.



Decades of experience gathered by working with moulders and OEMs in different industries make 2Mila Srl an excellent business partner when a competent raw material supplier is required to sustain your growth.

We select suitable materials and economical solutions to make tailor made proposals; this is our Company mission.





Our constant attention to customers needs helps us to understand their urgency for product quality, consistency and price convenience. We select materials and compounds according to the needs of the applications.

OUR COMPOUNDS ARE BASED ON:

AMORPHOUS		SEMI-CRYSTALLINE
ABS	UNFILLED	PA6
PC/ABS	GF FILLED	PA6.6
PC	M FILLED	PA12
	FR V0	

In the Electrotechnical segment applications like **Metering and Control** housings rely mostly on material dimensional stability in a wide range of temperatures. That's because there are several parts fixed on the chassis with screws or snap-fits.

Therefore, anysotrophy (warpage) and thermal dilation must be minimal. The product should also guarantee consistent performances as for: electrical insulation, impact resistance and flame retardancy. For technical applications in the Electrical market, requiring the above features, we propose our Amorphous FR grades. Call us and share your needs, we will support your ideas.

Material/Colour	**RoHS** Compliance	**REACH** Compliance	**Izod** (notched +23°C - J/m)	**Vicat B/120** °C	**BPT** °C	**GWFI** °C	**UL – EN** (min. thick.)
PC FR GF10-V0 Black - Grey - White	YES	YES	70 - 100	150	130	960	1,6mm
PC FR - V0 Natural transparent	YES	YES	400 - 600	140	125	960	2,2mm
PC/ABS T110 - V0 Black – Grey - White	YES	YES	≥ 350	105	90	960	1,6mm
PC/ABS FR HT - V0 Black – Grey - White	YES	YES	≥ 350	135	125	960	1,6mm
ABS - V0 Grey - White	YES	YES	80 - 120	85	70	960	1,6mm

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