



APPLIANCES COMPOUNDS

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A strong passion that became a solid reality

2Mila Compounds are tailor made products for different applications in Automotive, Electrical, Lighting and Appliances market segments. They are based mainly on Amorphous or Semi-crystalline polymers. Both have a long-lasting tradition in the **Small and Major Appliances segment** thanks to their technical and physical behavior. Characteristics which are welcomed in every Electric related application and that makes them a valid alternative to traditional materials.

Amorphous materials are not influenced by moisture like semi-crystallines and have a good resistance to harsh environments, particularly where transparency and impact are at the top of the needs list. The “Amorphous” are widely and successfully used in several parts such as: housings, water containers, measure bars and covers. **Semi-crystallines** are instead materials of election when chemical resistance, wear, high temperatures and high electrical tracking resistance are a threat.

2Mila Srl has matured a long experience in these Compounds and has developed specific product grades able to satisfy all key OEM and Moulders requirements, including economical aspects. In these specific applications the **dimensional stability, thermal properties and fire behaviors** are usually interdependent and very much appreciated.

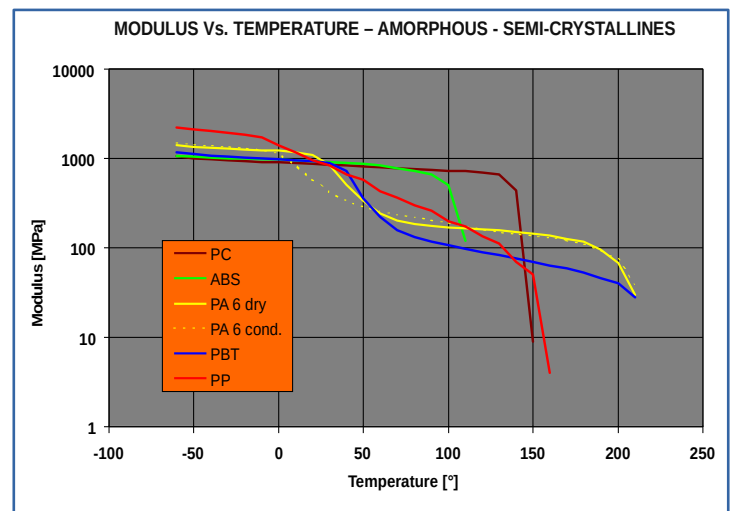


*“Tell us your
Needs, we are
ready to catch
them”*



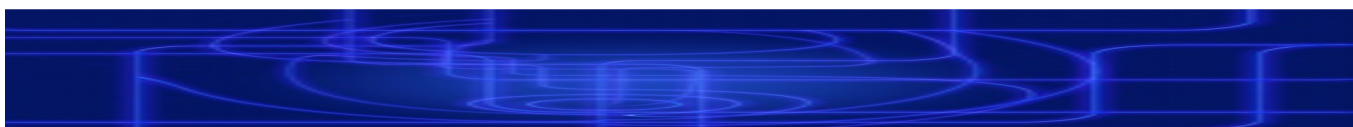
The working temperature is for plastic materials a critical aspect and is strictly linked to the type of service the final part should perform in its life. As a natural fact **Amorphous** polymers have predictable behaviors in temperature. Their characteristics are not influenced by other external factors (eg. moisture) and remain quite predictable.

Their stability, up to the T_m (Melting Temperature), is an important feature for designers and engineers. The graph shows the thermal behavior of some standard Amorphous, materials, in comparison with other common Semi-Crystalline polymers (both unreinforced). Of course **Semi-Crystallines** can greatly improve their modulus in temperature behaviors, with the addition of fillers or reinforcements (eg. Mineral, Glass fibres).



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

OUR COMPOUNDS ARE BASED ON:

AMORPHOUS

ABS
PC/ABS
PC

SEMI-CRYSTALLINE

PA6
PA6.6
PA12

UNFILLED
GF FILLED
M FILLED
FR V0

The Small Appliances applications rely mostly on material dimensional stability in a wide range of temperatures. Therefore, anisotropy (warpage) and thermal dilatation must be kept under control and reduced to minimum. The products should also guarantee consistent performances in impact, flame retardancy, appearance homogeneity (gloss or mat), electrical insulation. Last but not least, materials should have appropriate flow characteristics to fill the sometimes complex tool cavities (parts shape). These characteristics are offered by our Technical Compounds. Call us and share your needs, we will support your ideas and will provide you with our best solution.



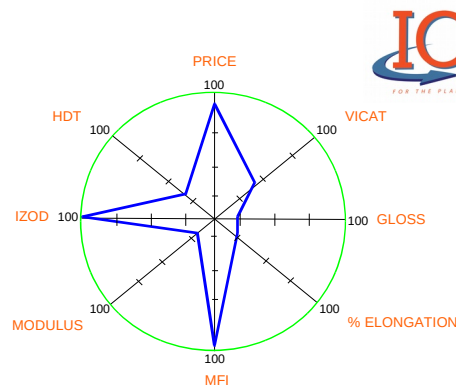
PC/ABS T65 and T85 H.I.
PC/ABS T45 L.H. + Surface
PC/ABS T65 H.I. (<0°C) + UV
PC/ABS T65 H.H, H.I. (<0°C) + UV
PC/ABS 13% GF + Easy Process
ABS H.H, H.I. (<0°C) + UV
PC colored V0
PC GF colored V0
PA6 GF & Mineral V0 + Tracking

H.H. = High Heat – H.I.= High Impact – L.I.= Low Impact

2Mila, with more than 40 years experience in Technical Compounds, has the competence to propose tailor made products in accordance with the application needs. Any of our prime raw material grade offered can also have a **IQ** version. The **IQ** product family is born to provide specific answers to specific needs, including the current problem of reduction of CO₂ emissions.

The approach to an **IQ** version starts with a close cooperation between the customer and 2Mila technical personnel. They, together, draw down the 3 or 4 critical-to-quality technical performances that should be always present in any lot of material produced and shipped. Every shipment comes with a Certificate of Analysis that shows the specific level of quality reached by that specific lot. The graph shows a possible agreement made for the specific **IQ** grade. In this case the interest was for: good impact resistance, nice MFI for an easy process and a more convenient price.

Find your perfect IQ solution to reduce the CO₂ content of your parts and to save money, safely.



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2Mila S.r.l.

Piazza Santa Maria Nascente, 3
20060 POZZUOLO MARTESANA (MI)
ITALY

Office:

Tel +39 02 39449567
Fax +39 02 39462587
E-mail: info@2milasrl.it

Fiscal address:

Via Zoncada, 20
26845 CODOGNO (LO)
ITALY

Warehouse:

Via Leonardo Da Vinci, 161
20062 Cassano D'Adda (MI)
ITALY

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