



AUTOMOTIVE COMPOUNDS

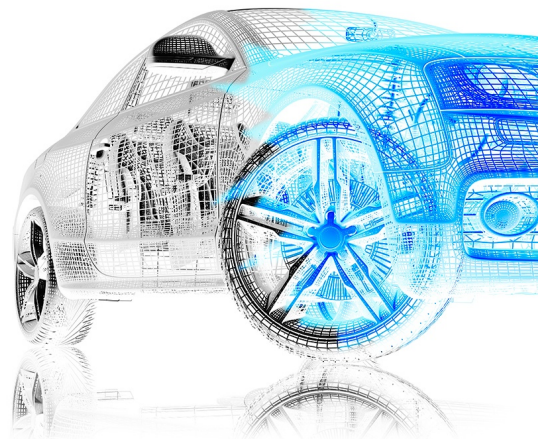
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A strong passion that became a solid reality

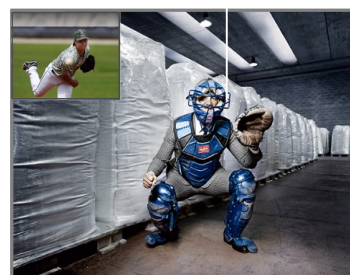
2Mila Compounds are tailor made products for different applications in Automotive, Electrical, Lighting and Appliances market segments. They are based mainly on Amorphous polymers which have a long-lasting tradition in the **Automotive Interiors** thanks to their predictable technical and physical behaviors.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

Amorphous materials are not influenced by moisture like the semi-crystallines 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 Interiors parts such as: **trims, frames, housings, covers**.

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** and **thermal behaviors** are usually interdependent and very much appreciated.

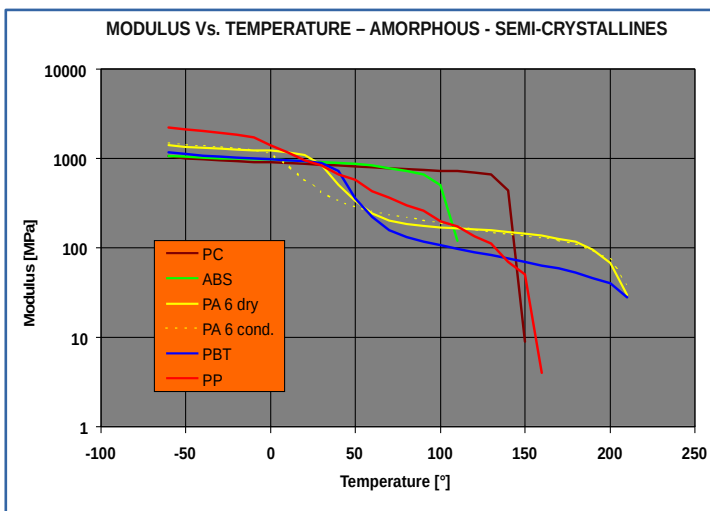


*“Tell us your
Needs, we are
ready to catch
them”*



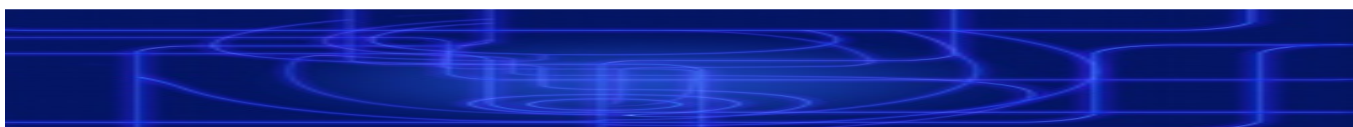
The working temperature is for plastic materials a critical aspect and is strictly linked to the type of service the final part should perform in its life. As a natural fact Amorphous polymers have predictable behaviors in temperature. Their characteristics are not influenced by other external factors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

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 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

ABS
PC/ABS
PC

UNFILLED
GF FILLED
M FILLED
FR V0

SEMI-CRYSTALLINE

PA6
PA6.6
PA12

In the Automotive segment, Interior applications rely mostly on material dimensional stability in a wide range of temperatures. That's because in the vehicles several parts must interact and match each other for aesthetic and functional aspects. Therefore, anisotropy (warpage) and thermal dilatation, must be kept under control and reduced to minimal. The products should also guarantee consistent performances in impact, low fog, low odor, flame retardancy, appearance homogeneity (gloss or opaque). Last, but not least, materials should have appropriate flow characteristics to fill the complex tool cavities (part shape). These characteristics are offered by Amorphous compound grades. Call us and share your needs, we will support your ideas.



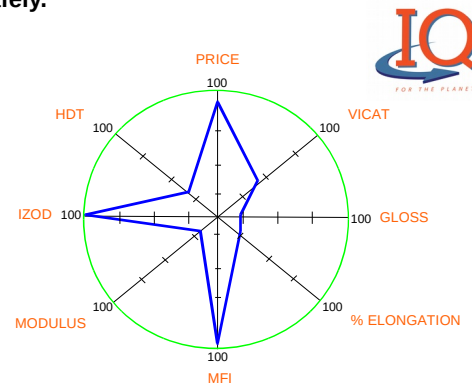
PC/ABS T65 H.I. Black
PC/ABS T85 H.I. Black
PC/ABS T45 L.H. + Process, Black
PC/ABS T65 H.I. (<0°C) UV Black
PC/ABS T65 H.H, H.I. (<0°C) UV
PC/ABS 13% GF + Easy Process
PC/ABS T88 20% GF H.Stiffness
ABS H.H, H.I. (<0°C) UV Black
PA6 15% Mineral + Aesthetic

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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