

# MAKE YOUR ECOLOGICAL CHOICE WITH **ECONAMID**<sup>®</sup>

## *High performance industrial grades*

**ECONAMID**<sup>®</sup> engineering plastics, based on valuable post production waste streams, offer economical and ecological solutions for high quality applications. The process creates a “closed-loop system” of scrap recovering by using carpet/textile as primary raw material for the finished product.

The **ECONAMID**<sup>®</sup> life cycle assessment confirms significant benefits for the environment while maintaining high quality and performance.

**ECONAMID**<sup>®</sup> is the environmentally friendly and cost-effective solution for your application.



## LIFE CYCLE IMPACT ASSESSMENT

Following graphics show the benchmarking between PA6 standard compounds, **ECONAMID®**, and Aluminium sheet in respect to 3 main environmental aspects:

- *Global Warming Potential (kg CO<sub>2</sub> -eq)*
- *Gross Energy Requirement (MJ)*
- *Total Resources (kg)*

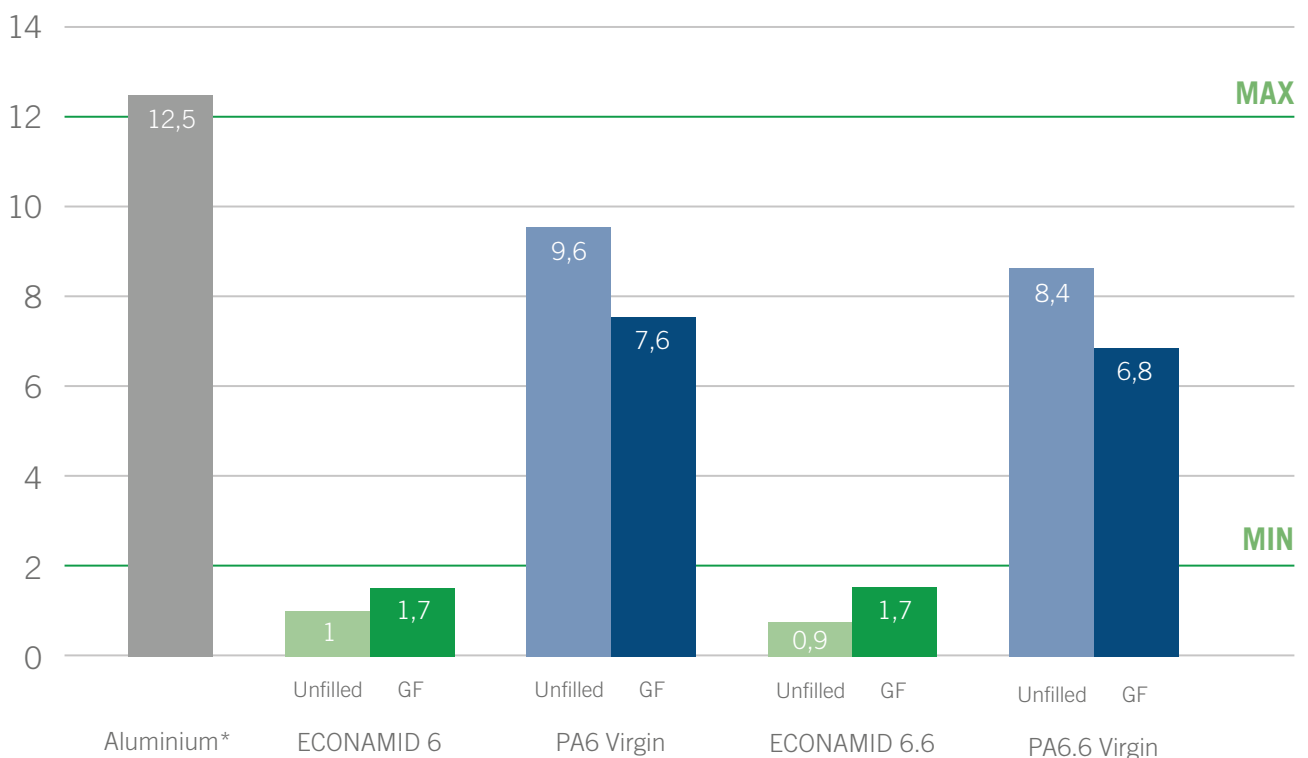
The Environmental figures refer to 1 kg delivered packed product.

Generic data used to carry out the inventory analysis come from a commercial database as Ecolnvent v2.2 or from ecoprofiles released by association of products as Plastics Europe 2005 for PA6 and PA6.6.



## GLOBAL WARMING POTENTIAL (KG CO<sub>2</sub>-EQ)

It takes into account the potential greenhouse gases emission along all the steps process in the system's boundaries: all greenhouses gases emission refer to 1kg CO<sub>2</sub> eq. emission.

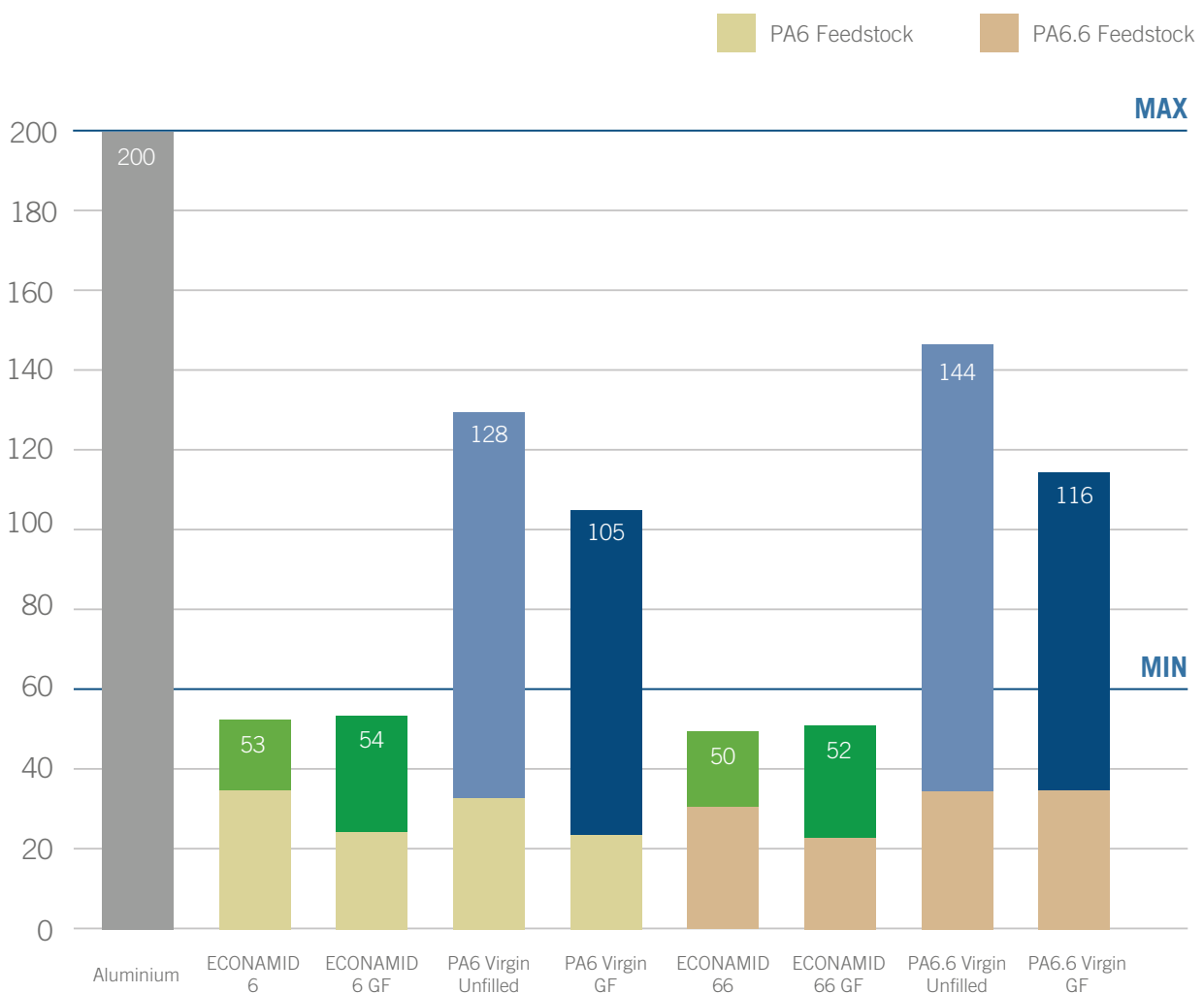


\*Aluminium ref: Primary sheet - EI2009

The study has been carried out comparing 1 kg of delivered materials. Considering Aluminium heavier specific weight, its environmental impact must be taken into account as even worse than the value reported here above.

## GROSS ENERGY REQUIREMENTS (MJ-EQ)

It takes into account those raw materials that produce delivered energy, that is energy content of delivered fuel, and production and delivery energy; finally, this figure takes into account also feedstock energy as energy content of **ECONAMID®** products.

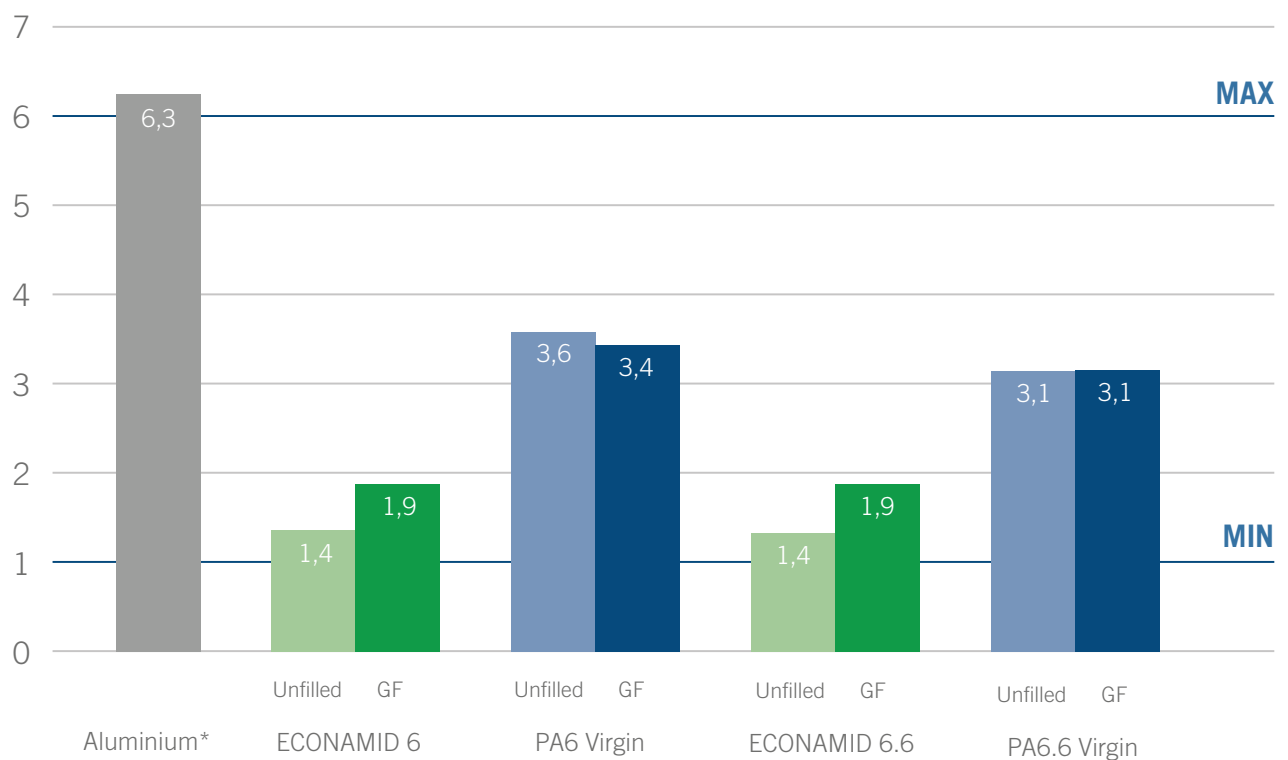


\*Aluminium ref: Primary sheet - E12009

Feedstock value means the energy used as raw material. It's 38.5 MJ and 34.9 MJ for PA6 and PA6.6 respectively.

## TOTAL RESOURCES (KG)

It takes into account raw material resources as plastic scrap and fossil resources i.e. coal, oil, gas.



\*Aluminium ref: Primary sheet - EI2009

