MOCOM

Alfater XL® ECO
Sustainable TPV

Alfater XL® ECO is a thermoplastic vulcanizate elastomer (TPV) based on PP recyclate and partially biobased EPDM. It combines sustainability with typical properties of elastomers and the advantages of thermoplastic processability. Alfater XL® ECO is an economical and sustainable TPV solution for many technical applications that need flexibility.

The Alfater XL® ECO series completes the ECO product portfolio of MOCOM and is a response to continuously increasing sustainability requirements in the plastic markets. The formulation and production follows well established technologies under highest quality standards. Alfater XL® ECO provides therefore properties well-known for conventional TPV (PP+EPDM). Processing is possible on standard machines with typical TPV technologies (e.g. injection molding, extrusion, blow molding).

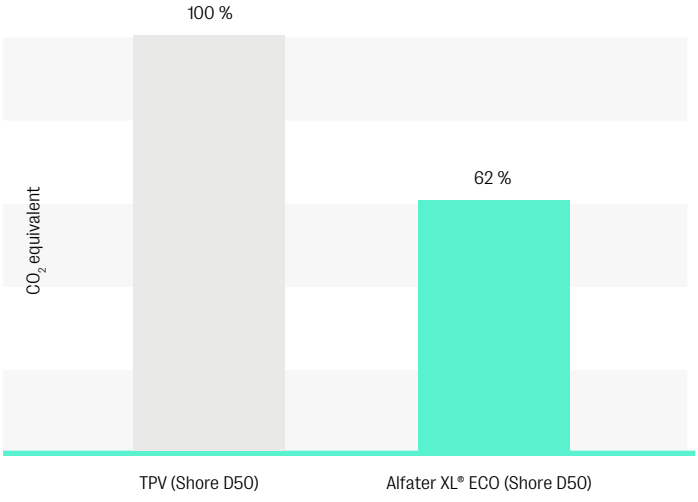
Alfater XL® ECO: the advantages at a glance

- Reduced carbon footprint
- Reduced use of limited fossil-based resources
- Recycling of plastic waste (post-industrial)
- Full production control and narrow production tolerances
- Available in different Shore hardness (Shore A50 to D50)
- Good recyclability
- Low density (< 1 g/cm^3)
- Broad service temperature range from -40 °C up to 130 °C
- Low tension and compression set
- Heat ageing resistance
- Resistance against weathering, moisture, UV and ozone
- Resistance against many aqueous solutions, acids and alkaline solutions
- Excellent bonding to polyolefins, TPO, TPV

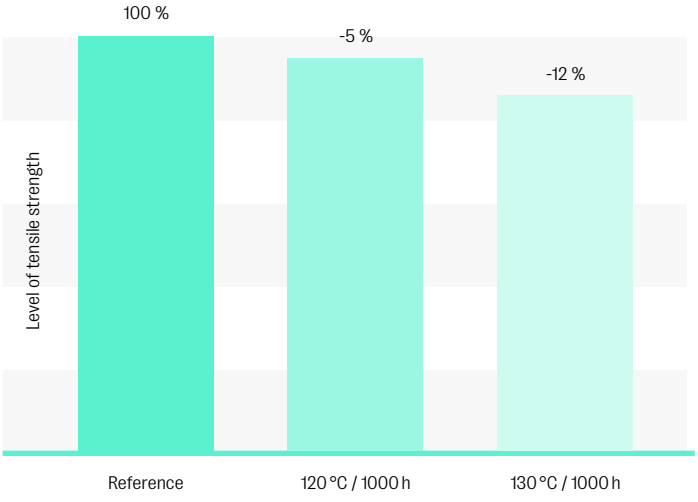
Typical applications for Alfater XL® ECO are for example:

- Bellow and boots
- Mudguards and dust covers
- Sealings and gaskets
- Profiles
- Casters
- Stoppers and plugs
- Protectors
- Handles and tool parts
- Soft-touch parts

CO_2 reduction potential due to use of PP recylate in TPV



Heat ageing of Alfater XL® ECO (Shore D40)



Internal calculation based on figures for German power mix 2017
from German Environment Agency (Umweltbundesamt – UBA).

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