



MOCOM

Alfater XL[®]
Soft – Flexible – TPV

Alfater XL[®] is a thermoplastic vulcanizate elastomer (TPV) and combines in one material typical properties of elastomers with the advantages of thermoplastics. Alfater XL[®] thus represents an economical solution for many technical components, as an alternative to rubber.

Alfater XL[®] is based on PP and a dispersed, crosslinked EPDM phase. It is manufactured in a reactive compounding process, also called dynamic vulcanization. The resulting specific morphology enables extraordinary properties. The highly cross-linked EPDM ensures excellent elastic properties, such as very good resilience - even with increased temperatures. The PP matrix in turn guarantees a good thermoplastic processing, good coloring and good recyclability of TPV. Long process times and cost-intensive post-processing steps can be reduced or avoided through the use of Alfater XL[®].

Alfater XL[®]: the advantages at a glance

- Broad hardness range (Shore A40 to D50)
- Easy thermoplastic processing (e.g. injection molding, extrusion, blow molding)
- Good recyclability
- Easy coloration (direct or with masterbatch)
- Low density (< 1 g/cm³)
- Broad temperature range from -40 °C up to 130 °C
- Low tension and compression set
- Good damping and anti-vibration
- Anti-slip and good grip
- 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 and PA

Serie	Hardness (Shore)	Color	Adhesion to	Processing	Major characteristics
Alfater XL® E 2GP	A60 – D50	Black, natural	Polyolefins, TPV, TPO	Extrusion, blow molding	High melt strength and melt stability, high viscosity
Alfater XL® I 2GP	A40 – D50	Black, natural	Polyolefins, TPV, TPO	Injection molding, Extrusion	General purpose, standard parts, short and medium flow paths, best mechanical properties
Alfater XL® I 3EF	A40 – D40	Black	Polyolefins, TPV, TPO	Injection molding	Excellent weathering resistance, easy flow, thin-walled and complex parts, long flow paths
Alfater XL® I 4GP	A40 – D40	Black, natural	Polyolefins, TPV, TPO	Injection molding	Bright inherent color, easy coloration, low emission and low fogging, easy flow, thin-walled and complex parts
Alfater XL® I 4PA	A55, A70, A85	Black, natural	Polyamide (e.g. PA6 and PA66)	Injection molding	Adhesion to PA (e.g. PA6 and PA66), easy flow, thin-walled and complex parts
Alfater XL® I 4FC	A40 – D40	Natural	Polyolefins, TPV, TPO	Injection molding	Food contact approved - FDA / EU (BfR), easy flow, thin-walled and complex parts
Alfater XL® ECO	A75, D40, D50	Black	Polyolefins, TPV, TPO	Injection molding, Extrusion	Use of PP recyclate and bio-EPDM (on customer request), reduced carbon footprint, properties comparable to Alfater XL® I 2GP

Special grades and further information about the series on request.



Alfater XL®: typical industries and applications

Automotive/Transportation

- Sealings and gaskets
- Bellow and boots
- Suctions pipes and air ducts
- Protective tubes
- Corner molds and end caps
- Glass encapsulation
- Spoiler and panels
- Sheaths and jackets
- Grommets
- Mats and inserts
- Soft-touch parts

Electrical/Electronics

- Cable parts and cable grommets
- Impact and shock protection
- Bumpers, bushings, connectors and plugs
- Sealings and gaskets
- Soft-touch handles
- Control elements
- Damping and vibration protection

Home/Garden/Industrial

- Protection and dust covers
- Impact and shock protection
- Bumpers and plugs
- Sealings and gaskets
- Soft-touch handles
- Casters
- Sheaths and jackets
- Damping and vibration protection
- Profiles and trims

Consumer Goods

- Sealings and gaskets
- Caps and closures
- Soft-touch parts
- Haptic parts
- Spouts and pourers
- Bumpers and plugs

MOCOM Compounds GmbH & Co. KG

Mühlenhagen 35 | 20539 Hamburg

T +49 40 78105-720 | sales@mocom.eu

T +49 40 78105-710 | technical@mocom.eu

www.mocom.eu

The information contained in this publication is based on our current knowledge and experience. However, due to the large number of factors that can influence our products when they are processed and used, it does not exempt processors from carrying out their own investigations and tests. Legally binding assurances of specific properties or of suitability for a specific purpose cannot be derived from our information. The recipient of our products is responsible for observing any applicable industrial rights as well as the existing laws and regulations.