



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 recycilate 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

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