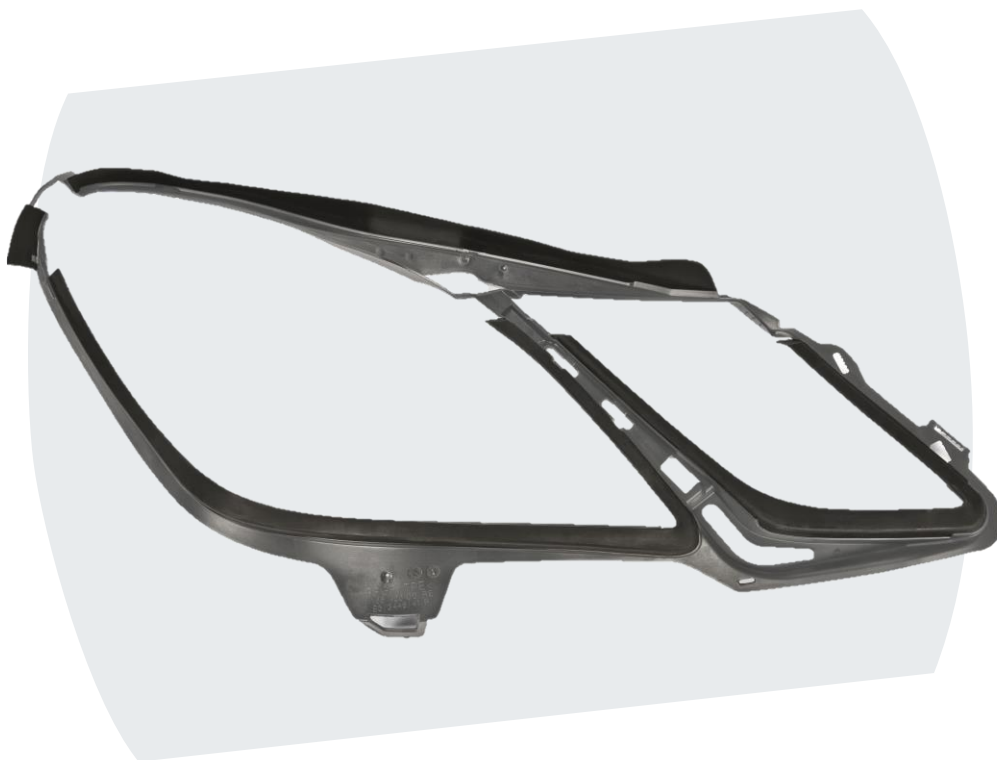




MOCOM

❖ 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 pure rubber.

Alfater XL® is based on PP and a finely dispersed, cross-linked EPDM phase. It is manufactured through a reactive compounding process, also called dynamic vulcanization. The resulting specific morphology enables extraordinary properties. The highly cross-linked EPDM phase ensures excellent elastic properties, such as very good sealing performance - even at increased temperatures. The PP matrix in turn guarantees an easy thermoplastic processing, good coloring and excellent recyclability of the TPV.

The excellent recyclability of TPV enables customers to realize integrated in-process recycling concepts directly in their manufacturing. Furthermore, long process and cycle times as well as cost-intensive post-processing steps can be reduced or avoided altogether by using Alfater XL®.

Alfater XL®: The advantages at a glance

- **Broad hardness range** (Shore A30 to D50)
- **Low density** (< 1 g/cm³) offers lightweight potentials
- **Low compression** and **tension set** enables very good sealing
- **Good cold elasticity** (up to -50°C) and **high heat ageing resistance** (long-term up to 135°C and short-term up to 150°C)
- **Resistance** against weathering, moisture, UV and ozone
- **Resistance** against many aqueous solutions, acids and alkalis
- **Anti-slip characteristics** provide good grip
- **Good damping** and **anti-vibration**
- **Excellent recyclability** (in-process and end-of-life recycling)
- **Easy thermoplastic processing** (e.g., injection molding, extrusion, blow molding)
- **Easy coloration** (direct or with masterbatch)
- **Excellent bonding** to polyolefins, TPO, TPV and PA allows economical 2K solutions

Series	Hardness (Shore)	Adhesion to	Processing	Characteristics
Alfater XL® E 2GP	A60 – D50	Polyolefins, TPO, TPV	Extrusion, blow molding	High melt strength and melt stability, high viscosity, (co-)extrusion and blow molding parts
Alfater XL® I 2GP	A35 – D50	Polyolefins, TPO, TPV	Injection molding, extrusion	General purpose grades, standard injection molding parts, short and medium flow paths, best mechanical properties and low compression set
Alfater XL® I 3EF	A40 – D40	Polyolefins, TPO, TPV	Injection molding	High flow, thin-walled and complex parts, long flow paths, excellent weathering resistance
Alfater XL® I 4GP	A30 – D40	Polyolefins, TPO, TPV	Injection molding	Bright inherent color, easy coloration, low emission and low fogging, odor-optimized, high flow, thin-walled and complex parts
Alfater XL® I 4PA	A55, A70, A85	Polyamides (e.g., PA6, PA66)	Injection molding	Adhesion to PA (e.g., PA6 and PA66), high flow, thin-walled and complex parts
Alfater XL® I 4FC	A40 – D40	Polyolefins, TPO, TPV	Injection molding	Food contact approved - FDA / EU (BfR), high flow, thin-walled and complex parts
Alfater XL® ECO	A70 – D50	Polyolefins, TPO, TPV	Injection molding, extrusion	„ECO“ feedstocks (e.g., recycled PP), reduced GWP (Global Warming Potential), properties comparable to Alfater XL® I 2GP

***Information on the products and other special grades (e.g., flame retardant, slip-optimized, electrically conductive, customized coloring) on request.**



Alfater XL®: Typical applications and solutions

Automotive / Transportation

- Bellows and protective tubes
- Suction pipes and air ducts
- Sealings and gaskets
- Spoiler and shutters
- Trim parts
- Sheaths and jackets
- Cooling hoses
- Cable bushings and grommets
- Corner molds and end caps
- Glass encapsulation
- Mats and inserts
- Soft-touch parts

Home / Garden / Industrial

- Cable bushings and grommets
- Sheaths and jackets
- Hoses
- Profiles and trims
- Sealings and gaskets
- Impact and shock protection
- Covers and caps
- Dust protection
- Bumpers, stoppers and plugs
- Soft-touch handles
- Damping and vibration protection
- Casters and guide rollers

Electrical / Electronics

- Cable bushings and grommets
- Cable sheaths
- Sealings and gaskets
- Impact and shock protection
- Bumpers, stoppers and plugs
- Connectors
- Soft-touch handles
- Control buttons or elements
- Damping and vibration protection

Consumer Goods

- Sealings and gaskets
- Lids, caps and closures
- Bumpers, stoppers and plugs
- Grommets
- Soft-touch parts
- Haptic parts

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 NO EXPRESS OR IMPLIED RECOMMENDATION OR WARRANTY IS GIVEN WITH REGARD TO THE SUITABILITY OF THE PRODUCT FOR A PARTICULAR APPLICATION, SUCH AS, BUT NOT LIMITED TO, SAFETY-CRITICAL COMPONENTS OR SYSTEMS.