

# Alfater XL<sup>®</sup> ECO



## ALFATER XL ECO D40 2GP0000

(Last update: 23.05.2023)

### MOCOM

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	black
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	Polymer recyclate, good weathering resistance, good chemical resistance, good ozone resistance, good hot air resistance, good hydrolysis resistant
Market Segment	Automotive, building and construction, do-it-yourself, electrical and electronic, Machinery, Furniture
Application Area	injection moulded parts, extruded parts, blow moulded parts, coextrusion
Typical Applications	seals, sealing lip, handles, impact protection / shock absorber, protection caps, cable ducts, casters, profile, tubes, cable guides, cable jacketing, bellows, air duct, 2K components
Adhesion to	Polypropylene Homopolymer, Polypropylene Copolymer, Polyethylene, Thermoplastic Vulcanisate (PP+EPDM), Thermoplastic Olefin Elastomer, Thermoplastic Elastomer general

Pre-Drying Conditions	in a dry air (dessiccant) dryer 70-80 °C for 2-4 h max. moisture content <0,10 %
Processing Injection Moulding	melt temperature 195-240 °C mould temperature 10-70 °C injection speed high back pressure (hydraulic) >4 bar holding pressure 50-70% of injection pressure press blow molding melt temperature 190-210 °C
Processing Extrusion	melt temperature 190-230 °C die temperature 190-220 °C
Storage	dry, protected from light tightly sealed

Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Tensile Stress at 100% Elongation (Type 2)	8.8	MPa	ISO 37
Tensile Strength (Type 2)	14.5	MPa	ISO 37
Tear Strength (Method Ba)	73	kN/m	ISO 34-1
Elongation at Break (Type 2)	550	%	ISO 37
Shore Hardness D (15s)	40	-	ISO 868
<b>Thermal Properties</b>			
Compression Set (22h / 100 °C / 25% / Type A)	78	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	70	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	55	%	ISO 815

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Compression Set (72h / 125° C / 25% / Type A)	94	%	ISO 815
<b>Electrical Properties</b>			
Tracking Resistance (CTI)	600	-	IEC 60112
<b>Rheological Properties</b>			
Shrinkage (lengthwise, 24h)	2 - 2.4	%	ISO 294-4
Shrinkage (lateral, 24h)	1.3 - 1.7	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	30	cm	-
<b>Physical Properties</b>			
Density	970	kg/m <sup>3</sup>	ISO 1183
<b>Ageing Properties</b>			
Ozone resistance (method A)	passed	-	ISO 1431-1A
<b>Ecological Properties</b>			
Global Warming Potential (GWP)	1.5	kg CO <sub>2</sub> eq./kg	ISO 14040, 14044

### Additional Information

When using raw materials from a recycling process, as with prime materials, ferrous / non-ferrous residues can never be completely excluded. To minimize the risk of possible effects of such residues, MOCOM uses extensive detection and separation systems in the production process of its compounds. However, even these quality assurance systems cannot guarantee that the resulting product is 100% free of such residues. Therefore, we recommend our customers to additionally use their own detection and separation systems adapted to their respective process. For further questions and specific advice in connection with MOCOM products, please do not hesitate to contact our application engineering department. The ecological properties listed in this document were calculated for a production in one of our European plants. Data for production in the United States or China can be provided by sending a request to the following address. [technical@mocom.eu](mailto:technical@mocom.eu)

### Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

The buyer is solely responsible for confirming the suitability of the product for a particular application, its utilization and processing and must observe any applicable laws and government regulations. **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.**

**Healthcare uses:** the supply of any product by ALBIS for any medical, pharmaceutical or diagnostic application is conditional to an assessment by ALBIS in terms of compliance with ALBIS' internal risk management policy – even for products which are in general designated for use in Healthcare applications.

**Important:** irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days

Technical Data Sheet - Preliminary Product

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- any critical component in any medical device that supports or sustains human life.

At all times, our standard terms and conditions of sale apply.