

Variety

THROUGH INDEPENDENT CLIMBING HOLDS PRODUCERS

The allHOLDS network was founded to connect independent producers of climbing holds and to jointly develop a polyurethane-based material tailored to their needs. The members of the network share the vision of offering a wide variety of individual holds made from a high-quality and sustainable material.

With the help of the network, a polyurethane-based material has been developed that meets all the properties required for a durable climbing grip. In addition to the synergies of material development, new productivity approaches are constantly emerging from which members benefit in order to be competitive in the long term.

At regular network meetings, there is a constant exchange between members on topics such as material properties and the production of climbing holds. But also fundamental trends such as sustainability, joint advertising and the further development of the allHOLDS network are discussed.

Each member can incorporate their own requirements into the material and its development. New developments are tested promptly by the members to give feedback on them and to drive the development forward.

Join the network!
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"The allHOLDS PUR fits perfectly with our philosophy, our demands and wishes, in order to produce durable and resistant climbing holds. With up to 40% share of renewable raw materials and 100% plastic-free packaging, we can now offer our customers an increasingly sustainable product."

holdingGrips

MEMBER OF **allHOLDS**

THE INDEPENDENT MEMBERS OF allHOLDS



Printed: 11/2021

developed by **allHOLDS**

ECO-FRIENDLY POLYURETHANE

Sustainability

40% RENEWABLE RAW MATERIALS
CERTIFIED „CARBON NEUTRAL PRODUCT“

Claim

NO USE OF STYRENE
NO USE OF PLASTICISERS

Durability

HIGH ABRASION RESISTANCE
RELIABLE QUALITY

Reduction

THINNER WALL THICKNESS
MATERIAL SAVING

Less CO₂ emission

LESS WASTE
LESS WEIGHT

allHOLDS
SUSTAINABILITY.
QUALITY. VARIETY.



Sustainability OF THE allHOLDS CLIMBING HOLDS

Creating climbing holds sustainably while offering variety and quality: That is the vision of allHOLDS, the network of independent climbing holds producers together with the polyurethane developer ebalta.

On the way to sustainable climbing holds, we started to develop an eco-friendly polyurethane.

Facts:

- Up to 40% renewable raw materials in the final product
- Certified „Carbon Neutral Product“
- No use of styrene and deliberate avoidance of plasticisers
- Durability due to very high abrasion resistance
- Material savings due to thinner wall thickness than polyester
- Less waste, less weight and less CO₂ emission

There is still a long way to go before we have sustainable climbing holds. In the allHOLDS network, we are continuously working to increase the use of renewable raw materials and recycled polyols.

At the same time, in regular exchanges, we try to optimise climbing holds production with the help of new technologies such as the use of 3D printing. In the process, material, waste and costs are reduced.

Sustainable solutions are also being looked for within the network with regard to disposal or reusability.

To offsetting our remaining carbon footprint, we invest in certified carbon offset projects that lead to greater sustainability elsewhere in the world.

The product development company ebalta is also certified as carbon neutral.



ADVANTAGES POLYURETHANE VS. POLYESTER

Sustainability

Thinner wall thicknesses can be produced with polyurethane, which leads to significantly lower material consumption. Renewable raw materials are used in product development.

Weight

Climbing holds made of polyester are fully cast and therefore heavy. The weight advantage of polyurethane is noticeable in handling, packaging and transport.

Geometry

Polyurethane enables a variety of grip shapes, such as flat tapered grips, which cannot be produced at all with the brittle polyester.

Processing

allHOLDS Eco-friendly polyurethane is offered for hand and machine casting. Cycle times of 10 minutes are possible. This makes production more efficient.



allHOLDS ECO-FRIENDLY POLYURETHANE

GM 1914 L (Hand Casting)

PRODUCT	Mixture GM 1914 L / Comp. A + B	Resin GM 1914 L Comp. A	Hardener GM 1914 Comp. B
Colour	whitish	whitish	whitish
Applications	climbing holds		
Properties	<ul style="list-style-type: none"> • suitable for production of climbing moulds according EN 12572-3:2017 • abrasion resistant • easily dyeable • contains > 40 % raw materials from renewable sources • free of plasticiser • very easy to cast • good impact strength • unfilled 		
Mixing ratio (p. b. w.)		100	80
Viscosity at 25°C (mPas)	1400 ± 100	2500 ± 150	20 ± 5
Density at 20°C (g / cm ³)	1.14 ± 0.02	1.07 ± 0.02	1.22 ± 0.02
Gel time 200g / 20°C (min.)	8 - 10	-	-
Curing time at RT (min.)	approx. 60	-	-
PHYSICAL DATA			
Flexural strength (MPa)	90 ± 5		
Flexural elongation at break (%)	no break		
Flexural modulus (MPa)	2200 ± 100		
Impact resistance (Charpy) (kJ / m ²)	50 ± 10		
Heat resistance (HDT) (°C)	80 ± 5		
Shore hardness (Shore D)	approx. 80		
SALES UNITS (PACKAGES)			
GM 1914 L Comp. A	5.000 kg / 25.000 kg / 200.000 kg		
GM 1914 Comp. B	4.000 kg / 20.000 kg / 200.000 kg		

GM 1914 S (Machine Casting)

PRODUCT	Mixture GM 1914 L / Comp. A + B	Resin GM 1914 L Comp. A	Hardener GM 1914 Comp. B
Colour	whitish	whitish	yellow transparent
Applications	climbing holds		
Properties	<ul style="list-style-type: none"> • suitable for production of climbing moulds according EN 12572-3:2017 • abrasion resistant • easily dyeable • contains > 40 % raw materials from renewable sources • free of plasticiser • very easy to cast • good impact strength • unfilled 		
Mixing ratio (p. b. w.)		100	80
Viscosity at 25°C (mPas)	1400 ± 100	2500 ± 150	20 ± 5
Density at 20°C (g / cm ³)	1.14 ± 0.02	1.07 ± 0.02	1.22 ± 0.02
Gel time 200g / 20°C (min.)	2 - 3	-	-
Curing time at RT (min.)	10 - 15	-	-
PHYSICAL DATA			
Flexural strength (MPa)	90 ± 5		
Flexural elongation at break (%)	no break		
Flexural modulus (MPa)	2200 ± 100		
Impact resistance (Charpy) (kJ / m ²)	50 ± 10		
Heat resistance (HDT) (°C)	80 ± 5		
Shore hardness (Shore D)	approx. 80		
SALES UNITS (PACKAGES)			
GM 1914 S Comp. A	5.000 kg / 25.000 kg / 200.000 kg		
GM 1914 Comp. B	4.000 kg / 20.000 kg / 200.000 kg		