



DATASHEET

GripFactory PolyGrip Ladder Rungs

GripFactory PolyGrip Ladder Rungs are made of polyester reinforced with fiberglass fibers (GRP) with an aluminum grain. By using these high-quality materials GripFactory PolyGrip Ladder Rungs are very strong and resilient. GripFactory PolyGrip Ladder Rungs are a sustainable solution for existing (smooth or worn) ladder sports. GripFactory PolyGrip Ladder Rungs reduce the risk of slipping of ladders and increase the safety of the ladder due to the larger available surface area. You get a whopping 15 year warranty! Samples are available on request.

GripFactory PolyGrip Ladder Rungs are virtually indestructible, completely splinter- and crack-free, and also weather-resistant. The lightweight material provides protection against rain and frost, as well as oil, chemicals and mud, increasing the safety of the facility. GripFactory PolyGrip Ladder Rungs are available in any RAL color and can even be supplied with a luminescent finish for increased visibility in low light.

Characteristics

- Impact-resistant – long durability
- Effective in wet and oily conditions
- Easy to assemble – reduces installation costs
- Non-conductive – eliminates electrical and thermal hazards
- Suitable for pedestrians, forklift and other heavy traffic
- Maintenance-free – will not rust or corrode
- 65% lighter than steel – easier to handle and cheaper to install
- Available from 2 mm thickness
- Available in any BS or RAL color
- Available to size
- Available in the grains: barefoot, fine, medium or offshore
- UV resistant
- Chemically resistant

Suitable for the surfaces below

- Ladder sports

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Technical data

Subject	Result
Thermal expansion	0×10^{-6} graden C
Flexibility	193 MPa
Tension	123 MPa
Thermal conduction	0.2 w/m2K
Tensile modulus	7.1GPa

Colors

Yellow is the standard color. GripFactory PolyGrip Ladder Rungs can also be manufactured in other colors or in a 'Glow in the Dark' version (on request).

- B.S. 4800 colors
- B.S. 5252 colors
- RAL colors

Fire resistance

GripFactory PolyGrip Ladder Rungs can be supplied in various fire resistance grains:

- BS 476 Part 7 Class 1
- BS 476 Part 7 Class 2

Grain / coarseness

- Ultra fine (barefoot)
- Fine
- Medium
- Offshore



Weight

Nominal thickness	kg / m ²
3.5 mm	6.80
4 mm	7.80
5 mm	9.70
6 mm	10.80
7 mm	11.90
8 mm	13.20
9 mm	14.40
10 mm	15.36

Pendulum Test Results

Reference	Grain	Roughness Rz	Temperature (C)	Orientation	Test Value	
					Dry	Wet
F66326	Medium	54.5	24	Along	90	83
				Across	98	85
F66324	Fine	64.7	24	Along	103	87
				Across	100	88

Potential for slip	Pendulum Test Value
High	<24
Moderate	25-35
Low	>36

Advantages of PolyGrip

- Flexural strength can be enhanced by the addition of woven reinforcement if required.
- Unlike other "Plastic" glazing products GRP will not drip, melt or soften in the event of fire.
- Compared with many other plastics GRP has minimal expansion and contraction characteristics and will not bow and warp in extremes of temperature.
- PolyGrip is up to seven times stronger than mild steel on a weight for weight basis.

GripFactory PolyGrip Ladder Rungs are a cost-effective way to add extra safety features to your ladders, making them safer to climb. They can be quickly and easily installed over existing sports using kit such as "Purflex".



GRIPFACTORY APPLICATION SERVICE

Are you not sure or do you have questions? Please contact the GripFactory Service Desk (+31 348 203000). At an additional cost you can have GripFactory PolyGrip products applied by a certified applicator.