



GEON[®] BOLD ALLOYS

BLENDING PERFORMANCE AND APPEAL

GEON® Bold Alloys bring together superior weathering performance with excellent color hold, even in the darkest shades. These outdoor weatherable formulations are tailor made for dark color capstock, profiles and sheet used in exterior building applications, such as decking, fencing, windows and trim. Available in a variety of desired finishes, from high gloss to matte, GEON Bold meets market demand for low maintenance products with the look of expertly stained wood or painted metal.



IMPROVED PROCESSING, REDUCED HASSLES

Part of the beauty of GEON Bold Alloys lies in ease of processing with fewer production steps. Our innovative formulations reduce cost, extrusion complexity or extensive lead times inherent with substitute materials and processes, increasing your speed to market.

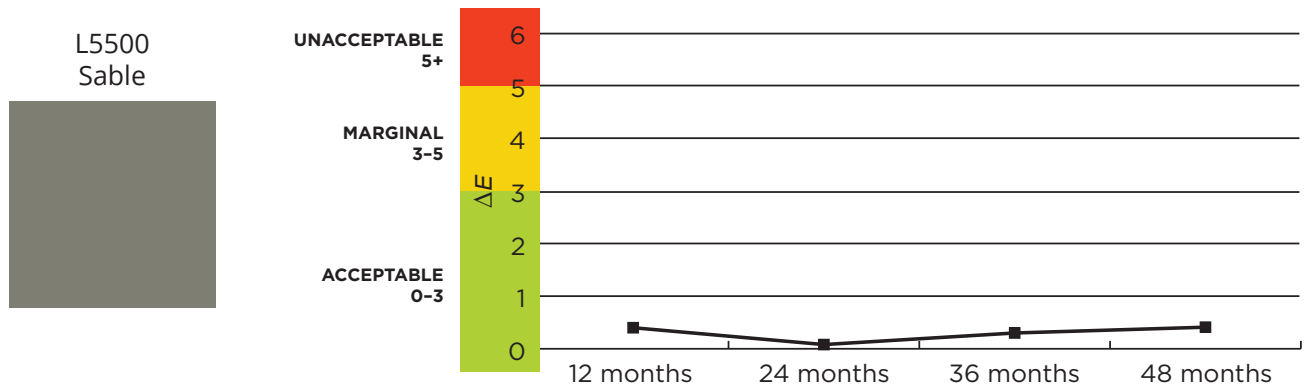
Choosing GEON Bold gives you protection against rotting, rusting and scratching damage as well as resistance to moisture and stains. With appealing darker colors that provide longer lasting performance, the GEON Bold portfolio of PVC alloys reduces risk of damage while letting you expand your vinyl color palette into trending colors to capture larger market share.



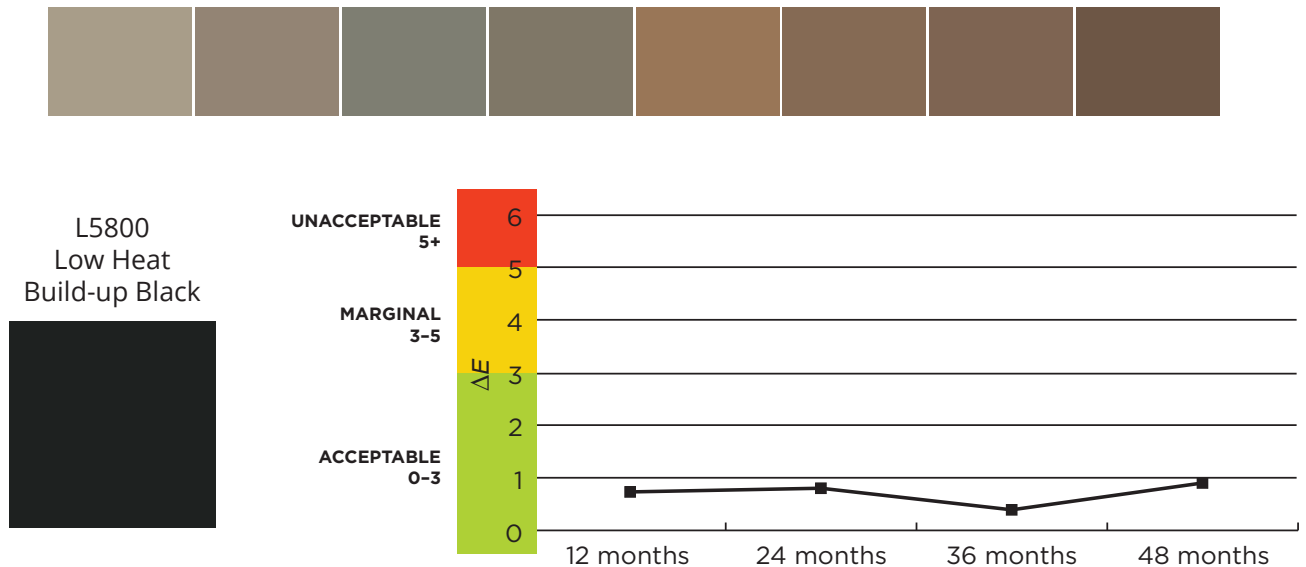
COLORS MADE TO LAST

A wide range of appealing dark colors resembling stained wood or painted metal means there is a color and finish to fit any style. Options for high gloss, satin or matte finishes provide even more flexibility in design. Formulations are customized to suit specific applications.

The superior color hold performance of GEON® Bold Alloys protects against fading to keep surfaces looking newer longer. This chart illustrates outdoor weathering data using averages for GEON Bold, showing that impact on color hold is well within acceptable standards, even for the darkest shades.



BASE GRADE, MEDIUM-DARK L>45



PREMIUM GRADE, DARK L<45



FOOTNOTES:

Results may vary by:

- Color space (bright red, yellow and orange will not weather well in any GEON Bold product), color standard provided determines the pigment package needed
- Environmental conditions - high humidity and temperature, chemicals, and air pollution can have a negative impact, depending on type and concentration
- Processing - if a material is processed at higher temperature and/or shear than recommended this will decrease the color hold

L value based on HunterLab Color Scale

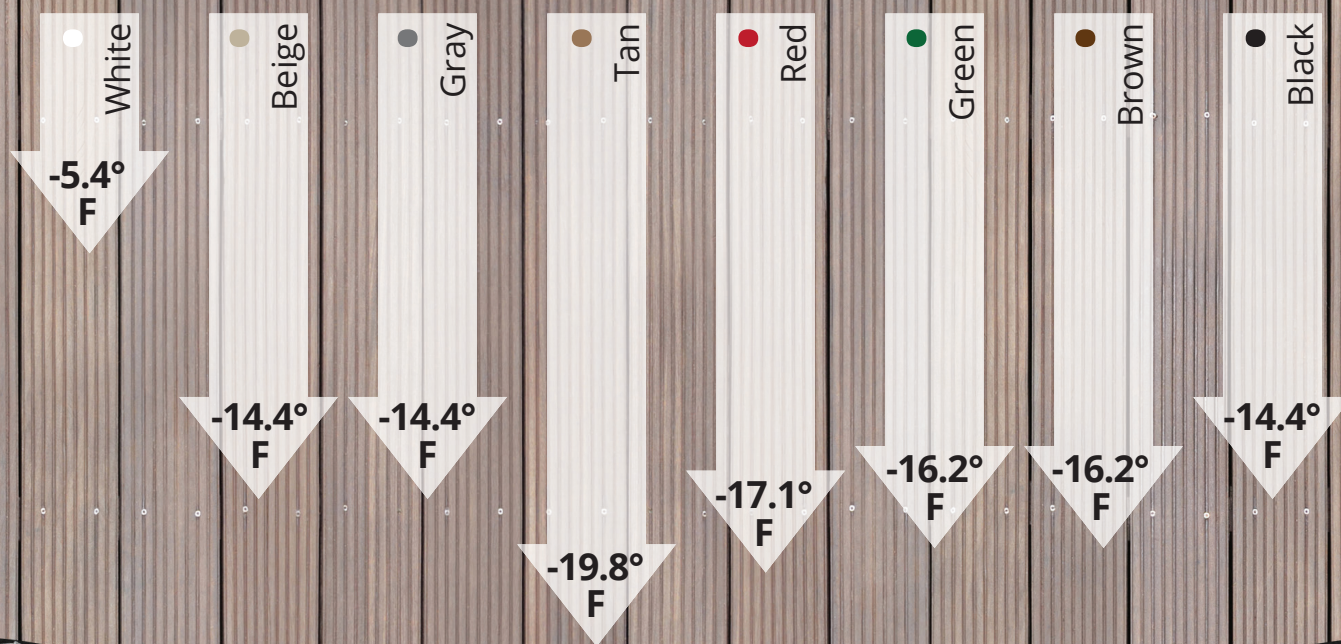
Tested in Avon Lake, Ohio climate in a horizontal orientation

KEEPING IT COOL

Cool pigment technology lowers solar heat build-up, cooling the surface by reflecting the heat away. By using GEON® Bold Alloys infused with cool pigment technology, surfaces can measure up to 30% cooler, improving resistance to warping and solving the problem of decks or railings becoming too hot for bare feet and hands.

Combining increased Heat Distortion Temperature (HDT) with cool pigment technology makes GEON Bold PVC Alloys the ideal material for color hold and stability in outdoor applications, even for the darkest colors.

This illustration provides an example of solar heat build-up minimized over a broad palette of colors when cool pigment technology is used in place of standard pigments.



CHOOSING THE IDEAL SOLUTION

Choose from base or premium material grades, depending on your needs. We help you analyze your options and choose the right formulation for end-use conditions.



	SOLID PROFILE		CAPSTOCK			
	L5000	LA426 (HTX)	L5000	L5500	L5700	L5800
Description	Base grade for solid profile extrusion in mid-dark colors	Premium grade for solid profile extrusion in the darkest colors	Base grade for capstock extrusion in mid-dark colors	Premium grade for capstock extrusion in mid-dark colors	Premium grade for capstock extrusion in the darkest colors	Premium grade for capstock extrusion in the darkest colors
Application	Fencing, Windows	Fencing, Windows	Windows	Railing, Fencing, Windows	Decking	Railing, Fencing, Windows
Chemistry	Proprietary PVC Alloy	AMSAN PVC Alloy	Proprietary PVC Alloy	ASA PVC Alloy	ASA PVC Alloy	Acrylic PVC Alloy
HDT (°F)*	157	194	157	184	203	141
Melt Stiffness	Medium	Low	Medium	Low	Low	Low
Gloss Level	High, medium and low gloss achievable in any grade					
Relative Cost	\$	\$\$	\$	\$\$\$	\$\$\$	\$\$\$\$

GEON® Bold L5800 outperforms ASA and Acrylic in scratch resistance testing**

* 66 psi load, conditioned

** Erichsen Cross Hatch, internal GEON testing

GEON recommends consulting with GEON Technical Service to determine the best product for specific processing and application requirements.



YOUR DESIGN, OUR SOLUTIONS

Material selection, part design and environmental factors are always important considerations. Outdoor weathering, color hold and part orientation all should be taken into account when choosing a substrate. With GEON® Bold Alloys, you have more design freedom with grades that can be:

- Extruded as solid profile
- Co-extruded as capstock
- Extruded as sheet



WHEN YOU WORK WITH GEON®

When you work with GEON, you can depend on us for unparalleled service from start to finish.

Technical Support:

- Increased speed to market with a customizable range of GEON Bold Alloys to choose from
- A simplified supply chain with a broad portfolio of extrusion solutions from a single supplier
- Improved efficiency with a balance of cost and performance

Design & Production Services:

- Material selection recommendations based on application needs
- Custom color matching and product differentiation
- Processing and extrusion knowledge to maximize production output





1-800-GET-GEON
SALES@GEON.COM

GEON®
Performance Solutions

Copyright © 2021, GEON Performance Solutions. GEON Performance Solutions makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. GEON makes no warranties or guarantees respecting suitability of either GEON's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. GEON MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.