

MATERIAL PROPERTIES DATA SHEET | SOLID

FENIX NTA[®] is a material produced by simultaneous application of heat and pressure, in order to obtain a homogeneous non-porous high density product. The core structure is composed of paper, impregnated with thermosetting resins. The outer surface is made of a real metal structure substrate treated with next generation acrylic resins applied to the substrate as a multilayer coating and subsequently, cured via an electron beam process.

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| PROPERTIES | TEST METHOD | PROPERTY OR ATTRIBUTE | UNIT | BLACK CORE ¹ | MATCHED COLOUR CORE ¹ |
|--|---|--|-----------------------------------|---|----------------------------------|
| | | | | VALUES | |
| GENERAL PROPERTIES | | | | | |
| Surface quality | EN 438-2:2019 cl.4 | Spots, dirt and similar surface defects | mm ² /m ² | ≤ 1 | |
| | | Fibres, hair and scratches | mm/m ² | ≤ 10 | |
| Dimensional tolerances | EN 438-2:2019 cl.5 | Thickness tolerance | mm | 4.0 ± 0.40 | |
| | | | | 6.0 ± 0.50 | |
| | | | | 8.0 ± 0.70 | |
| | | | | 10.0 ± 0.70 | |
| | 12.0 ± 0.80 | | | | |
| | EN 438-2:2019 cl.6 | Length and width | mm | + 10 / - 0 | |
| | EN 438-2:2019 cl.7 | Straightness of edges | mm/m | ≤ 1.5 | |
| | EN 438-2:2019 cl.8 | Squareness | mm/m | ≤ 1.5 | |
| | EN 438-2:2019 cl.9 | Flatness (measured on full-size sheet) | mm/m | 4.0: ≤ 8.0 6.0 - 8.0: ≤ 5.0 10.0 - 12.0: ≤ 3.0 | |
| SURFACE PROPERTIES | | | | | |
| Resistance to surface wear | EN 438-2:2019 cl.10 | Initial Point | Revolutions | ≥ 200 | |
| Resistance to water vapour | EN 438-2:2019 cl.14 | Appearance | Rating | 5 | |
| Resistance to dry heat (160 °C/20') | EN 438-2:2019 cl.16 | Appearance | Rating | 5 | |
| Resistance to wet heat (100 °C/20') | EN 438-2:2019 cl.18 | Appearance | Rating | 5 | |
| Resistance to scratching | EN 438-2:2019 cl.25 | Appearance | Rating | ≥ 4 | |
| Resistance to staining | EN 438-2:2019 cl.26 | Appearance - Groups 1 and 2 | Rating | 5 | |
| | | Appearance - Group 3 | Rating | ≥ 4 | |
| Light fastness (Xenon-arc) | EN 438-2:2019 cl.27 | Contrast | Grey scale rating | ≥ 4 | |
| Surface specular reflectance | ISO 2813 | Surface specular reflectance | Gloss unit | 8 + 16 at 85° | |
| Acids resistance | SEFA 8-PL-2010 method 8.1 | Chemical Spot Test | Suitability | Compliant | |
| PHYSICAL PROPERTIES | | | | | |
| Density | EN ISO 1183 | Density | g/cm ³ | ≥ 1.35 | |
| Resistance to immersion in boiling water | EN 438-2:2019 cl.12 | Appearance | Core delamination Pass or fail | Pass | |
| Dimensional stability at high temperatures | EN 438-2:2019 cl.17 | Cumulative dimensional change | Longitudinal % | 4.0 mm: ≤ 0.4 6.0 ÷ 12.0 mm: ≤ 0.3 | |
| | | Cumulative dimensional change | Transversal % | 4.0 mm: ≤ 0.8 6.0 ÷ 12.0 mm: ≤ 0.6 | |
| Resistance to crazing | EN 438-2:2019 cl.24 | Appearance | Rating | ≥ 4 | ≥ 4 surface ≥ 3 edge |
| Flexural Modulus | EN ISO 178 | Stress | Mpa | ≥ 9000 | |
| Flexural strength | EN ISO 178 | Stress | Mpa | ≥ 80 | |
| OTHER PROPERTIES | | | | | |
| ENVIRONMENTAL PROPERTIES | | | | | |
| Formaldehyde emission | EN 13986 | Formaldehyde emissions | Rating | E1 | |
| Volatile Organic Chemical Emissions | Greenguard Gold Certification Low Chemical Emission UL 2818 | Volatile Organic Chemical emissions | Suitability | Greenguard Gold certified | |
| FOOD AND HYGIENE PROPERTIES | | | | | |
| Hygiene | NSF/ANSI 35 | Suitability for use as work and nonwork surfaces of food service equipment on which direct food contact during normal preparation or holding operations is not intended, expected, or reasonable | Suitability | NSF certified | |
| Food contact | Regulation EU n° 10/2011 and following amendments | Food Contact Materials performance | Suitability | Compliant - conditions of use reported in the Declaration of conformity | |
| ¹ For the current and up to date FENIX [®] delivery program in North America, visit www.fenixforinteriors-na.com . For the delivery program in the rest of the world, visit www.fenixforinteriors.com . Please contact your sales representative for more information. | | | | | |
| Note to FENIX sheets with adhesive protective film The protective film is designed to temporary protect the surface from dust, scratches and marks left by handling equipment; it does not protect from corrosion, dampness or chemical agents. Sheets covered with protective film should be stored in a clean dry atmosphere at room temperature (ideally 20 °C), avoiding exposure to atmospheric agents and UVA rays. The protective film should be removed from the sheets surface after application and before the final item. In case of thick sheets with protective film on both sides, the film should always be removed from both sides at the same time. In any case, the removal should take place within 6 months from the date of shipping by the Manufacturer(s) of the FENIX sheets. The Manufacturer(s) of the FENIX sheets shall not accept liability for improper use of sheets covered with a protective film, nor for any consequences of an incorrect application. | | | | | |
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