



Resysta® Test Data

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Resysta Test Details

| Test Name | Test Reference | Test Body | Result | Detail |
|---|--|---------------------------------|---------------------------|---|
| Density | ASTM D2395:2002 | Admaterials Technologie | 1.46 g/cm ³ | |
| Coefficient of Linear Thermal Expansion | ASTM D696 | Admaterials Technologie | 3.6 x 10(-5) mC | |
| Thermal Conductivity | EN12664 | EPH | 0.199W/(m ² K) | |
| Slippery Test | DIN51097 | EPH | Class C classification | Least slippery |
| Coefficient of Sliding and Friction untreated | EN13893 | EPH | 0.46 | |
| Coefficient of Sliding and Friction with 2K varnish | EN13894 | EPH | 0.52 | |
| Fire Rating | BS476 (6&7) | SGS | Class 1 | |
| Fire Rating | EN ISO 11925-2 | IFT | E (B2) | |
| Fire Rating | ASTM E84 | QAI Laboratories | Class A | Flame spread 25, smoke developed 450 |
| Durability | DINV ENV 12038:2002 and GEN/TS 15083-2 | EPH | Class 1 | No attack. Considered very durable. Comparable with the highest durability class of wood. |
| Durability - Resistance to rotting fungi | CEN/TS 15083-2 | | Class 1 | Very durable - no attack by fungi |
| Durability - Resistance to mould fungi and discolouration fungi | EN15534-1:2012 | | Very Durable | |
| Durability - Subterranean Termites | ASTM D3345-08 | | Highly Durable | Virtually no weight loss |
| Emmission | LGA | LGA | Passed | |
| Brinnell Hardness (HB) | EN1534 | EPH | 81.1 N/mm ² | |
| IZOD ImpactStrength, notched | ISO 180/1eA | | 2.65kJ/m ² | |
| IZOD ImpactStrength, unnotched | ISO 180/1eU | | 5.99kJ/m ² | |
| Bending Strength | ISO 178 | Kunststoff Institute, Rosenheim | 46 N/mm ² | |
| Bending E-modulus | ISO 178 | Kunststoff Institute, Rosenheim | 3850 N/mm ² | |

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Environmental Product Declaration

To see the EPD Report, please visit
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| Tensile Strength | ISO 527 | Kunststoff Institute, Rosenheim | 21.8 N/mm ² | |
| Tensile E-modulus | ISO 527 | Kunststoff Institute, Rosenheim | 2340 N/mm ² | |
| Flexural Strength | ISO 178 | | 46.6 Mpa | |
| Flexural strain at Break | ISO 178 | | 2.50% | |
| Shearing Strength | EN392 | | 16.8N/mm ² | |
| Axial Withdrawal Force (of screws) | EN 320.2011-07 | EPH | 5777 N | |
| Axial Withdrawal Resistance (of screws) | EN 320 | EPH | 280 N/mm ² | |
| Water Vapour Transmission | DIN EN ISO 12572 | Tuv Nord | u=1300 > sd 7.22m diffusion | |
| Water Absorption at 100% air humidity | ISO 62 | | 0.73% | After 6 hours |
| Water Absorption at 100% air humidity | ISO 62 | | 1.12% | After 32 hours |
| Water Absorption at 100% air humidity | ISO 62 | | 1.85% | After 124 hours |
| Friction Coefficient - Leather, Dry, Top-side | ASTM D 2074-04 | QAI Laboratories | 0.687 | |
| Friction Coefficient - Rubber, Dry, Top-side | ASTM D 2074-04 | QAI Laboratories | 1.082 | |
| Friction Coefficient - Neolite, Dry, Top-side | ASTM D 2074-04 | QAI Laboratories | 0.85 | |
| Friction Coefficient - Leather, Dry, Bottom - side | ASTM D 2074-04 | QAI Laboratories | 0.636 | |
| Friction Coefficient - Rubber, Dry, Bottom - side | ASTM D 2074-04 | QAI Laboratories | 1.085 | |
| Friction Coefficient - Neolite, Dry, Bottom - side | ASTM D 2074-04 | QAI Laboratories | 0.997 | |
| Cold Check Test | Cold Check Test | EPH | No visible cracks | |
| Weathering Test | DIN EN ISO 4892-3 | EPH | No cracks, blisters or other visible changes after 1500hr | |

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Resysta Test Details

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| Abrasion Resistance | DIN 68861 (2) | EPH | 0.212g/200 | |
| Resistance to scratching | DIN 68861 (4) | EPH | 4B | |
| Resistance to cigarette burns | DIN 68861 (6) | EPH | 6E | |
| Surface Resistivity | EN 438 (2) | EPH | 14 | |
| Impact Resistance | EN 438 (2) | EPH | 14N | |
| Carbon Footprint | | | Zero Emission | Carbon Dioxide bonds in the rice husk compensating for that arising in production & transport. |
| Melt Flow Index (MVR) | ISO 1133 | | 2-3 cm ³ / 10 min | |
| Heat Distortion Temperature | ISO 75 | | 62°C | |
| Specific Surface & Volume Resistance | DIN IEC60093 voltage 100a | | Rx=8.0x10(13) | Measuring surface & Resistance |
| | | | a=8.1x10(14) | Measuring specific resistance |
| | | | Rx=2.7x10(13) | Measuring volume resistance |
| | | | a=6.3x10(14) | Measuring specific volume resistance |
| Resistance to Chemicals - Olive Oil | SFS EN 13442 | | | |
| Resistance to Chemicals - Red Wine | SFS EN 13442 | | | |
| Resistance to Chemicals - Blue Berry | SFS EN 13442 | | | |
| Resistance to Chemicals - Ethanol | SFS EN 13442 | | | |
| Resistance to Chemicals - Ammonia | SFS EN 13442 | | | |

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| Deflection at 500N / 350mm span | | EPH | 1.3 - 1.5mm | |
| Breaking Force at 350mm span | | EPH | 3644 - 3664 N | |
| Breaking Force at 250mm span | | | 5800 N | |
| E Modulus | DIN EN ISO 310 | | 2283 N/mm ² | |
| Bending Strength | DIN EN ISO 310 | | 33.6 N/mm ² | |
| Tensile Strength | DIN EN ISO 310 | | 2897 N/mm ² | |
| Water Absorption | | | 0.50% | 24 hr submersion |
| Dimension Change in Length | | | 0.10% | 24 hr submersion |
| Dimension Change in Width | | | 0.10% | 24 hr submersion |
| Dimension Change in Thickness | | | 0.10% | 24 hr submersion |
| Skid Resistance | DIN 51097 | | Group C | >24 |
| Abrasion | DIN 438-2 | | 0.052 g | Tested with 100 cycles |

Environmental Product Declaration

Resysta® has been accredited with an Environmental Product Declaration (EPD) to EN15804 which reinforces the product's excellent environmental story.

To see the EPD Report, please visit www.falconpp.co.uk/products/resysta and click on the link below the EPD logo.



Contact us for more information



| | | |
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