



Resysta® Test Data

1:4

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 CEN/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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2:4

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Test Name	Test Reference	Test Body	Result	Detail
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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3:4

Resysta Test Details

Test Name	Test Reference	Test Body	Result	Detail
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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Resysta® Test Data

4:4

Decking Profile 21 x 125

Test Name	Test Reference	Test Body	Result	Detail
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.



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