

SimplyClad® Standard Technical Datasheet

Physical Properties

The physical data given in the table were determined on the test specimens under defined conditions and represent average values from a relatively large number of measurements. The values measured on test specimens can't be used without restriction for a prediction of the properties of finished articles, since processing and shaping have an influence on the properties.

Property	Standard	Test method	Unit	SimplyClad®
Mechanical Properties				
Density	ISO 1183 (DIN 53479)		g/cm ³	≈1,44
Tensile stress at yield	DIN EN ISO 527 (DIN 53 455)	test specimen 1 B	N/mm ²	50
Elongation at break	DIN EN ISO 527 (DIN 53 455)	test specimen 1 B	%	20
Modulus of elasticity	ISO 527-2 (DIN 53 457)	test specimen 1 B	N/mm ²	2700
Compression strength	ISO 3605 (DIN 53 454)		N/mm ²	65
Stress at 3,5% Strain	ISO 178 (DIN 53 452)		N/mm ²	70
Impact strength	DIN EN ISO 179 (DIN 53 454)	test specimen 1eU	kJ/m ²	No rupture at 0°C
Notch impact strength	DIN EN ISO 179 (DIN 53 454)	test specimen 1eA	kJ/m ²	4
Ball-pressure hardness	ISO 2039 (DIN 53 456)	H358/30	N/mm ²	≈110
Shore hardness D	DIN 53 505			-
Thermal Properties				
Vicat softening temperature	DIN EN ISO 306	Method B 50	°C	75
Heat distortion temperature	DIN EN ISO 75	Method A	°C	≈65
Heat distortion temperature	DIN EN ISO 75	Method B	°C	≈70
Coefficient of linear expansion	DIN 53 752	20 to 60°C	K ⁻¹	≈70 · 10 ⁻⁶
Thermal conductivity at 20°C	DIN 52 616		W/(m·K)	-
Other Properties				
Water absorption	DIN 53 495 / ISO 62	Method 3L	%	0,5
Temperature range for application		Classification		-15 to max. 60°C
Physiological indifference	EG 1935/2004	EG 10/2011		"positive" At our own assessment
Fire behaviour Class	DIN 4102 (D)	1 – 4 mm	-	B1
	UL 94 (USA)	1,5 mm min thickness		V-0, 5VB, (GY,WT,BK)
	UL 94 (USA)	3 mm min. thickness		V-0, 5VA, (GY,WT,BK)
	BS 476 Part 7 and Part 6 (GB)	1,5 mm – 3 mm		Class 1 and Class 0
	Epiradiateur-Test (F)	1 – 4 mm		M1
Antibacterial activity	ISO 22196-20111,37°C / 24h	Reduction [%]		
Escherichia coli				98,3
Staphylococcus aureus				97,4
MRSA ⁺³				99,99

Note 1: printing may affect the characteristic of the material

Note 2: all raw materials in accordance with EU/ 10/2011

Note 3: Staphylococcus aureus, Methicillin Resistant

Sales contact **0345 899 1000**
 e-mail sales@stsflooring.co.uk
www.simplyclad.co.uk



