

 **SHIPRADE**
S-Tech®

S-Tech Technical Data Sheet (1) :

Characteristics	Test Method	Tested Value	Required Value
Thickness	EN 438-2 section 5	According to the required thickness	$0.9 \leq t \leq 1.2 \text{ mm} : \pm 0.10 \text{ mm}$ $4.0 \text{ mm} : \pm 0.3 \text{ mm}$ For any other thickness – upon technical approval
Density	ISO 1183 - 1	1.4 gr/cm ³	Min. 1.35 gr/cm ³
Wear Resistance	EN 438-2 section 10 HGS , CGS	IP = 185 Rev.	Initial Point $\geq$ 150 Rev.
Scratch Resistance	EN 438-2 section 25 HGS , CGS	4 N	Flat Surface Min. 2 N Textured Surface Min. 3 N
Impact Resistance	EN 438-2 Small Ball section 20 HGS , CGS	22 N	Min. 20 N
Dimensional Stability at elevated temp.	EN 438-2 section 17 HGS , CGS	%L = 0.38 ; %T = 0.92	Max. values %L = 0.55 ; %T = 1.05

S-Tech Technical Data Sheet (1) :

Characteristics	Test Method	Tested Value	Required Value
Resistance to Dry Heat (@ 180°C)	EN 438-2 section 16		Rating Min.
	HGS , CGS	4	3
	Glossy Surface Finish Other Surface Finish	5	4
Resistance to water vapor	EN 438-2 section 14		Rating Min.
	HGS , CGS	4	3
	Glossy Surface Finish Other Surface Finish	5	4
Resistance to immersion in Boiling Water	EN 438-2 section 12		Rating Min.
	HGS , CGS	4	3
	Glossy Surface Finish Other Surface Finish	5	4
Resistance to Staining	EN 438-2 section 26		Rating Min.
	HGS , CGS		
	Group 1 & 2 Group 3	5 4	5 4

S-Tech Technical Data Sheet (2) :

Characteristics	Test Method	Tested Value	Required Value
Flatness	EN 438-2 section 9		
	HGS		
	$0.9 \leq t \leq 1.2 \text{ mm}$	36	Max. 60 mm/m
	CGS		
	$2.0 \leq t < 6.0 \text{ mm}$	1.23 mm	Max. 8 mm / 1 M length
Electrical Resistance			
	DIN EN 61340 –5-1&2 (2001)	$58 \times 10^6 \Omega$	$1 \times 10^4 \Omega \leq R_s \leq 1 \times 10^9 \Omega$
	DIN EN 61340 –5-1&2 (2001)	$35 \times 10^6 \Omega$	$7.5 \times 10^5 \Omega \leq R_g \leq 1 \times 10^9 \Omega$
	ASTM-D257 and ASTM-F150	---	Mandatory only where R_s or $R_g > 10^{10} \Omega$
Rs (100v) RH = 15% + 60%			
Rg (100v) RH = 15% + 60%			
Charge Decay			

Remarks :

- @ HGS = Horizontal Grade Standard Laminate
- @ VGS = Vertical Grade Standard Laminate
- @ Rs= surface resistance
- @ Rg= resistance to ground
- @ Available surface finish – Bute. For any other surface upon technical approval.
- @ Available Thickness 0.9 – 1.2 mm & 4 mm. For any other thickness upon technical Approval.
- @ Approved decors – 3153 & 3150. Any other décor - only upon technical approval.
- @ It is recommended to use Static dissipative PB (Particle Board) and Static dissipative Adhesives for laminate / Board applications.