

S-Sign Technical Data Sheet (1) :

Characteristics	Test Method	Required Value
Thickness	EN 438-2 section 5	$2.0 \leq t < 3.0 \text{ mm} : \pm 0.20 \text{ mm}$ $3.0 \leq t < 5.0 \text{ mm} : \pm 0.3 \text{ mm}$ $5.0 \leq t < 8.0 \text{ mm} : \pm 0.4 \text{ mm}$ $8.0 \leq t \leq 12.0 \text{ mm} : \pm 0.5 \text{ mm}$ $12.0 \leq t < 16.0 \text{ mm} : \pm 0.6 \text{ mm}$ $16.0 \leq t < 20.0 \text{ mm} : \pm 0.7 \text{ mm}$ $20.0 \leq t < 25.0 \text{ mm} : \pm 0.8 \text{ mm}$ $25.0 \leq t : \text{According To Agreement customer / producer}$
Density	ISO 1183 – 1	Min. 1.35 gr/cm ³
Wear Resistance	EN 438-2 section 10 VGS, CGS	Initial Point $\geq 150 \text{ Rev.}$ Wear Value $\geq 350 \text{ Rev.}$
Scratch Resistance	EN 438-2 section 25 VGS , CGS	Flat Surface Min. 2 N Textured Surface Min. 3 N
Impact Resistance	EN 438-2 Big Ball section 21 VGS , CGS $2.0 \leq t < 6.0 \text{ mm}$ $t \geq 6.0 \text{ mm}$	1400 mm height : no crack , 10 mm Max. 1800 mm height : no crack , 10 mm Max.
Surface Crack @ 80°C 20 Hours	EN 438-2 section 24 VGS , CGS	Min. Level 4

S-Sign Technical Data Sheet (1) :

Characteristics	Test Method	Required Value
Resistance to Dry Heat at 180°C	EN 438-2 section 16 VGS , CGS	
	Glossy Surface Finish	Min. Level 3
	Other Surface Finish	Min. Level 4
Resistance to Water Vapor	EN 438-2 section 14 VGS , CGS	
	Glossy Surface Finish	Min. Level 3
	Other Surface Finish	Min. Level 4
Resistance to Boiling Water	EN 438-2 section 12 VGS , CGS	
	$2.0 \leq t < 5.0$ mm	Max. 5% in weight Max. 6% in thickness
	$t \geq 5.0$ mm	Max. 2% in weight Max. 2% in thickness
	Glossy Surface Finish	Min. Level 3
	Other Surface Finish	Min. Level 4

S-Sign Technical Data Sheet (2) :

Characteristics	Test Method	Required Value
Resistance to Cigarette Burn	EN 438-2 section 30 VGS , CGS	Min. Level 3
Resistance to Staining	EN 438-2 section 26 VGS , CGS Group 1 + 2 Group 3	Min. level 5 Min. level 4
Flatness	EN 438-2 section 9 VGS , CGS $2.0 \leq t < 6.0$ mm $6.0 \leq t < 10.0$ mm $t \geq 10.0$ mm	Max. 8 mm / 1 M length Max. 5 mm / 1 M length Max. 3 mm / 1 M length
Light Fastness	EN 438-2 section 27 VGS , CGS Grey Scale	Min. level 4
Tensile Strength	EN ISO 527 – 2 VGS , CGS	Min. 60 MPa
Bending Strength	EN ISO 178 VGS , CGS	Min. 80 MPa

S-Sign Technical Data Sheet (2) :

Remarks :

@ CGS = Compact Grade Standard Laminate

@ VGS = Vertical Grade Standard Laminate

@ Required Values Based on 438-4