

S-pheno Technical Data Sheet (1)

Characteristics	Test Method	Required Value
Thickness	EN 438-2 section 5	$0.5 \leq t < 1.0 \text{ mm} : \pm 0.10 \text{ mm}$ $1.0 \leq t < 2.0 \text{ mm} : \pm 0.15 \text{ mm}$ $2.0 \leq t < 3.0 \text{ mm} : \pm 0.20 \text{ mm}$ $3.0 \leq t < 5.0 \text{ mm} : \pm 0.3 \text{ mm}$ $5.0 \leq t < 8.0 \text{ mm} : \pm 0.4 \text{ mm}$ $8.0 \leq t < 12.0 \text{ mm} : \pm 0.5 \text{ mm}$ $12.0 \leq t < 16.0 \text{ mm} : \pm 0.6 \text{ mm}$ $16.0 \leq t < 20.0 \text{ mm} : \pm 0.7 \text{ mm}$ $20.0 \leq t < 25.0 \text{ mm} : \pm 0.8 \text{ mm}$ $25.0 \leq t : \text{According To Agreement customer / producer}$
Density	ISO 1183 – 1	Min. $1.40 \pm 0.05 \text{ gr/cm}^3$
Scratch Resistance	EN 438-2 section 25 CGS	Flat Surface Min. 2 N Textured Surface Min. 3 N
Impact Resistance	EN 438-2 Big Ball section 21 CGS $2.0 \leq t < 6.0 \text{ mm}$ $t \geq 6.0 \text{ mm}$	$1400 \text{ mm height} : \text{no crack, } 10 \text{ mm Max.}$ $1800 \text{ mm height} : \text{no crack, } 10 \text{ mm Max.}$
Surface Crack @ 80°C 20 Hours	EN 438-2 section 24 CGS	Min. Level 4

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Resistance to Dry Heat at 180°C	EN 438-2 section 16 CGS Glossy Surface Finish Other Surface Finish	 Min. level 3 Min. level 4
Resistance to Water Vapor	EN 438-2 section 14 CGS Glossy Surface Finish Other Surface Finish	 Min. Level 3 Min. Level 4
Resistance to Boiling Water	EN 438-2 section 12 CGS $2.0 \leq t < 5.0$ mm $t \geq 5.0$ mm Glossy Surface Finish Other Surface Finish	 Max. 5% in weight Max. 6% in thickness Max. 2% in weight Max. 2% in thickness Min. Level 3 Min. Level 4
Resistance to Cigarette Burn	EN 438-2 section 30 CGS	Min. Level 3
Resistance to Staining	EN 438-2 section 26 CGS	

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	Group 1 + 2 Group 3	Min. Level 5 Min. Level 4
Flatness	EN 438-2 section 9 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 CGS Grey Scale	Min. level 4
High Temp. stability 70°C	EN 438-2 section 17 CGS $2.0 \leq t < 5.0$ mm $t \geq 5.0$ mm	L : Max. 0.4 mm W : Max. 0.8 mm L : Max. 0.3 mm W : Max. 0.6 mm
Tensile Strength	EN ISO 527 – 2 CGS	Min. 60 MPa
Bending Strength	EN ISO 178 CGS	Min. 80 MPa