

G-ext Technical data (1)

Characteristics	Test method	Tested Value	Required Value
Thickness	EN 438-2 section 5 6 mm Nominal 8 mm Nominal	5.9 mm 7.8 mm	$5.0 \leq t < 8.0 \text{ mm} : \pm 0.4 \text{ mm}$ $8.0 \leq t < 12.0 \text{ mm} : \pm 0.5 \text{ mm}$
Density	ISO 1183 - 1	1.4	Min. $1.35 \pm 0.05 \text{ Kg/m}^3$
Wear Resistance	EN 438-2 section 10 EDS / EDF	IP = 235 Rev. Wear Value = 400 Rev.	Initial Point $\geq 150 \text{ Rev.}$ Wear Value $\geq 350 \text{ Rev.}$
Scratch Resistance	EN 438-2 section 25 EDS / EDF	6 N	Textured Surface Min. 3 N
Impact Resistance	EN 438-2 Big Ball section 21 EDS / EDF $t \geq 6.0 \text{ mm}$	No Crack , 3.5 mm	1800 mm height : no crack , 10 mm Max.
Surface Crack @ 80°C 20 Hours	EN 438-2 section 24 CGS / CGF	Level 4	Min. level 4
Resistance to Dry Heat at 180°C	EN 438-2 section 16 CGS textured Surface Finish	Level 5	Min. level 4
Resistance to Water Vapor	EN 438-2 section 14 EDS / EDF Textured Surface Finish	Level 5	Min. Level 4
Resistance to Boiling Water	EN 438-2 section 12 EDS / EDF $t \geq 5.0 \text{ mm}$ Textured Surface Finish	$\Delta W = 0.5\%$ $\Delta T = 0.4\%$ Level 5	Max. 2% in weight Max. 2% in thickness Min. Level 4
Resistance to immersion in water 65°C ; 48 Hours	EN 438-2 section 15 EDS , EDF $t \geq 5.0 \text{ mm}$	$\Delta W = 1.0\%$ Level 5	Max. 5% in weight Color change Min. level 4
Resistance to Staining	EN 438-2 section 26 EDS , EDF Group 1 + 2 Group 3	Level 5 Level 5	Min. level 5 Min. level 4

Characteristics	Test method	Tested Value	Required Value
Flatness	EN 438-2 section 9 EDS , EDF $6.0 \leq t \leq 10.0 \text{ mm}$	1.87 mm	Max. 3 mm / 1 M length
Light fastness	EN 438-2 section 27 ⁽¹⁾ EDS , EDF Grey Scale ⁽⁴⁾	Level 5	Min. level 4
Resistance To UV Light 1500 Hour	EN 438-2 section 28 ⁽²⁾ EDS , EDF Grey Scale ⁽⁴⁾ Contrast Appearance	Level 4 Level 5	Min. level 3 Min. level 4
Resistance To Artificial Weathering 3000 Hour	EN 438-2 section 29 ⁽¹⁾ EDS , EDF Grey Scale ⁽⁴⁾ Contrast Appearance	Level 4 Level 5	Min. level 3 Min. level 4
Dimensional stability at elevated temperature (70°c ; 90% RH)	EN 438-2 section 17 EDS , EDF $t \geq 5.0 \text{ mm}$	L = 0.18% W = 0.36%	L : Max. 0.3% W : Max. 0.6%
Flexural Strength	EN ISO 178 EDS , EDF	114 MPa	Min. 80 MPa
Flexural Modulus	EN ISO 178 EDS , EDF	16,522 MPa	Min. 9000 MPa
Tensile Strength	EN ISO 527 – 2 EDS , EDF	85 MPa	Min. 60 MPa
Coefficient Of Linear Thermal Expansion (COTE)	ASTM D696-08 ⁽³⁾	6.0×10^{-6} mm / mm °c	---
Fire Classification	EN 13501-1 ASTM E 84 – 10 BS 476 Part 7:1997	B S2 d0 TS 49515 (21.2.2011) Class A Class 1	--- --- ---

Remarks :

- (1) Based on test method EN ISO 4892-1 and 4892-2 .
- (2) Based on test method EN ISO 4892-3 .
- (3) COTE test is conducted between +30°c To -30°c .
- (4) Grey Scale assessment according to EN 20105-A02 .