

Technical characteristics

polyrey compact



scratch resistance



heat resistance



ease of maintenance



resistance to cigarette burns



resistance to chemicals and household cleaning products



resistance to cracking



impact resistance



abrasion resistance



hygienic surface



colour fastness under artificial light

Characteristics	Grade		Standard	Fire retardant
	Finish		FA	
	Thickness in mm		4 - 6 - 8 - 10 - 12.5	
	Classification		CGS	CGF
	Standard	Unit of measure		
Surface defects	EN 438-2-4			
Spots		mm ² /m ²	≤ 1	≤ 1
Linear		mm/m ²	≤ 10	≤ 10
Thickness tolerance				
4mm		mm	± 0.30	± 0.30
6m	EN 438-2-5	mm	± 0.40	± 0.40
8 and 10mm		mm	± 0.50	± 0.50
12.5mm		mm	± 0.60	± 0.60
Tolerance on length and width	EN 438-2-6	mm	-0 / +10	-0 / +10
Straightness tolerance	EN 438-2-7	mm/m	≤ 1.5	≤ 1.5
Squareness tolerance	EN 438-2-8	mm/m	≤ 1.5	≤ 1.5
Flatness tolerance				
4m thickness	EN 438-2-9	mm/m	≤ 8.0	≤ 8.0
6 and 8 mm thickness		mm/m	≤ 5.0	≤ 5.0
10 and 12.5mm thickness		mm/m	≤ 3.0	≤ 3.0
Abrasion resistance	EN 438-2-10	No of revolutions	≥ 350	≥ 350
			except pearlescent ↑ ≥ 50	except pearlescent ↑ ≥ 50
Resistance to boiling water				
Mass				
4mm thickness	EN 438-2-12	%	5	7
> 4mm thickness		%	2	3
Thickness				
4mm thickness		%	6	9
> 4mm thickness		%	2	6
Appearance		Class	4 ⁽²⁾	4 ⁽²⁾
Resistance to steam	EN 438-2-14	Class	4 ⁽²⁾	4 ⁽²⁾
Superficial heat resistance 180 °C	EN 438-2-16	Class	4 ⁽²⁾	4 ⁽²⁾
Superficial humidity resistance	EN 12721	Class	4 ⁽²⁾	4 ⁽²⁾
Dimensional stability at high temperature				
4mm thickness				
Longitudinal	EN 438-2-17	%	≤ 0.40	≤ 0.40
Transverse		%	≤ 0.80	≤ 0.80
> 4mm thickness				
Longitudinal		%	≤ 0.30	≤ 0.30
Transverse		%	≤ 0.60	≤ 0.60
Impact resistance (large ball)				
Diameter of imprint	EN 438-2-21	mm	< 10	< 10
Height of fall		m	4mm: 1.40 6 to 12.5mm: 1.80	4mm: 1.40 6 to 12.5mm: 1.80
Resistance to cracking	EN 438-2-24	Class	4 ⁽⁵⁾	4 ⁽⁵⁾
Scratch resistance	EN 438-2-25	Rating	3 non pearlescent 2 pearlescent ↑	3 non pearlescent 2 pearlescent ↑
Stain resistance				
Groups 1 & 2	EN 438-2-26	Class	5 ⁽¹⁾	5 ⁽¹⁾
Group 3			4 ⁽²⁾	4 ⁽²⁾
Colour fastness under artificial light	EN 438-2-27	Grey scale	≥ 4	≥ 4
Resistance to cigarette burns	EN 438-2-30	Class	3 ⁽⁴⁾	3 ⁽⁴⁾
Fire rating (Euroclass)			6mm: D-s2,d0 8 to 12.5mm: C-s1,d0 Large size 8 to 12.5mm: C-s2,d0	B-s2,d0
Density	EN ISO 1183-1	g/cm ³	1.35	1.35
Modulus of elasticity	ISO 178: 2003	Mpa	≥ 9,000	≥ 9,000
Bending strength	ISO 178: 2003	Mpa	≥ 80	≥ 80
Tensile strength	ISO R527: 1996	Mpa	≥ 60	≥ 60
Hygienic surface			Authorised	Authorised

(1) Hairline cracking spread randomly across the surface (2) Moderate change in aspect and/or colour (4) Moderate change in aspect and/or moderate brown stains (5) No change to surface, slight hairline cracks on the edges visible to the naked eye