

Technical characteristics

polyrey compact



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