



Technical Data Sheet

EN 438 Physical Test Results

Chemical Resistant SPC by Durcon

TEST	Standard	Minimum Requirements	SPC by Durcon Chemical Resistant Results
Density :	EN ISO 1183-1	: ≥ 1,35 g/cm ³	≥ 1,35 g/cm ³
Thickness tolerance :	EN 438-2-5	6 mm +/- 0,40 mm 8 - 10 mm +/- 0,50 mm 12-16 mm +/- 0,60 mm 18-20 mm +/- 0,70 mm	6 mm +/- 0,40 mm 8 - 10 mm +/- 0,50 mm 12-16 mm +/- 0,60 mm 18-20 mm +/- 0,70 mm
Length and width tolerance :	EN 438-2-6	-0 / + 10 mm	-0 / + 10 mm
Straightness tolerance :	EN 438-2-7	≤ 1,5 mm/m	≤ 1,5 mm/m
Squareness tolerance :	EN 438-2-8	≤ 1,5 mm/m	≤ 1,5 mm/m
Flatness tolerance :	EN 438-2-9	6 - 8 mm : ≤ 5 mm 10 mm : ≤ 3 mm	6 - 8 mm : ≤ 5 mm 10 mm : ≤ 3 mm
Surface defects :	EN 438-2-4	Spots : ≤ 1 mm ² /m ² Linear : ≤ 10 mm/m ²	Spots : ≤ 1 mm ² /m ² Linear : ≤ 10 mm/m ²
Dimensional stability at high temp :	EN 438-2-17	Length : ≤ 0,30 % Transverse : ≤ 0,60 %	Length : ≤ 0,30 % Transverse : ≤ 0,60 %
Modulus of elasticity :	ISO 178	≥ 9000 Mpa	≥ 9000 Mpa
Bending strength :	ISO 178	≥ 80 Mpa	≥ 80 Mpa
Resistance to steam :	EN 438-2-14	Rating 4	Rating 5
Dry heat resistance 180 °C :	EN 438-2-16	Rating 4	Rating 5
Resistance to boiling water :	EN 438-2-12	Mass Increase : ≤ 2 % Thickness increase : ≤ 2 % Appearance : Rating 4	Mass Increase : ≤ 2 % Thickness increase : ≤ 2 % Appearance : Rating 4
Resistance to humidity 100 °C :	EN 12721	Rating 4	Rating 5
Impact resistance (large dia. ball) :	EN 438-2-21	Drop height : 180 cm Indentation dia. < 10 mm	Indentation dia. ≤ 10 mm
Resistance to cracking :	EN 438-2-24	Face : Rating 4 Edge : Rating 4	Face : Rating 5 Edge : Rating 4
Scratch resistance :	EN 438-2-25	Rating 3 (4N)	Rating 5 (6N)
Colour fastness under artificial light :	EN 438-2-27	Grey scale rating : 4 to 5	Grey scale rating : 4 to 5
Stain Resistance (contact time 16 h) : Group 1 (acetone, coffee) Group 2 (hydrogen peroxide 3%) Group 3 (sodium hydroxide 25%, hydrogen peroxide 30%)	EN 438-2-26	Rating 5 Rating 5 Rating 4 at 20 min	Rating 5 Rating 5 Rating 4 black / 5 white
Abrasion Resistance :	EN 438-2-10	Initial point 150 rev	Initial point 150 rev
Fire performance :	EN 13501-1	D, s2- d0	D, s2- d0
Formaldehyde emission :	EN 717-2	E1	E1
Volatile Organic Compound emission :	ISO 16000-9	Not Listed	Class A/Greenguard Gold