



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	: $\geq 1,35 \text{ g/cm}^3$	$\geq 1,35 \text{ g/cm}^3$
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	$\leq 1,5 \text{ mm/m}$	$\leq 1,5 \text{ mm/m}$
Squareness tolerance :	EN 438-2-8	$\leq 1,5 \text{ mm/m}$	$\leq 1,5 \text{ mm/m}$
Flatness tolerance :	EN 438-2-9	6 - 8 mm : $\leq 5 \text{ mm}$ 10 mm : $\leq 3 \text{ mm}$	6 - 8 mm : $\leq 5 \text{ mm}$ 10 mm : $\leq 3 \text{ mm}$
Surface defects :	EN 438-2-4	Spots : $\leq 1 \text{ mm}^2/\text{m}^2$ Linear : $\leq 10 \text{ mm}/\text{m}^2$	Spots : $\leq 1 \text{ mm}^2/\text{m}^2$ Linear : $\leq 10 \text{ mm}/\text{m}^2$
Dimensional stability at high temp :	EN 438-2-17	Length : $\leq 0,30 \%$ Transverse : $\leq 0,60 \%$	Length : $\leq 0,30 \%$ Transverse : $\leq 0,60 \%$
Modulus of elasticity :	ISO 178	$\geq 9000 \text{ Mpa}$	$\geq 9000 \text{ Mpa}$
Bending strength :	ISO 178	$\geq 80 \text{ Mpa}$	$\geq 80 \text{ Mpa}$
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 : $\leq 2 \%$ Thickness increase : $\leq 2 \%$ Appearance : Rating 4	Mass Increase : $\leq 2 \%$ Thickness increase : $\leq 2 \%$ 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. $\leq 10 \text{ mm}$
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) :	EN 438-2-26	Rating 5 Rating 5 Rating 4 at 20 min	Rating 5 Rating 5 Rating 4 black / 5 white
Group 1 (acetone, coffee)			
Group 2 (hydrogen peroxide 3%) Group 3 (sodium hydroxide 25%, hydrogen peroxide 30%)			
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