Wilsonart

Wilsonart Material Specification Solid Surface

HARACTERISTIC / PROPERTY	UNIT:		SPECI	DETAIL:					
GRADE:	N/A	100% Acrylic. *EN 438 Decorative laminate guidelines.					ANSI / NEMA / ASTM		
SIZE:		Target Tolerance Range							
		Specification	(+)	(-)	Min	Max	* Concession allowable on		
Length: As ordered +/- 3.2 mm.	mm	3073	3.2	3.2	3069.8	3076.2	length only. Item must meet		
	mm	3660	3.2	3.2	3656.8	3663.2	minimum dimensions		
		0000	0.12	0.12	000010	000012			
Nidth: As ordered +/- 3.2 mm.	mm	762	3.2	3.2	758.8	765.2	* Range / fluctuation not		
	mm	1370	3.2	3.2	1366.8	1373.2	to exceed defined tolerance		
Thickness:									
4.0mm, +/- 0.30mm	mm	4.0	0.3	0.3	3.7	4.3	* Magicstone		
6.0mm, +/- 0.30mm.	mm	6.0	0.3	0.3	5.7	6.3			
12.3mm, +/- 0.30mm.	mm	12.3	0.3	0.3	12	12.6			
		4 E ((T							
		1.5mm / m (Targe							
Edge Straightness & Squareness:	mm / m	Mav fluctuate dep	EN 438 // NEMA LD3-2000						
		May fluctuate dependent on length tolerances agreed							
Flatness / Warp:	mm	< 1mm max deflect	ction over 600m	m span			EN 438 // NEMA LD3-2000		
Sanding:		Face / Top: 400 Wet grit polished							
-		Back / reverse: 50 to 80 grit dry sand			50 preferred				
			50 to 60 gift d		-				
Physical data		12mm	6mm		3&4n	ım			
Barcol Hardness	Avg / appx	60	60		60		DIN 53 479 /ASTMD-2583		
Density	g/cm ³	1.6	1.6		1.59	9	DIN 53 479 / ASTM792A		
Weight	kg/m²	ca. 20	ca. 9.6		ca. 4				
Flexural strength	N/mm² / PSI	ca.50 /72D-79000	ca.50 /72D-79	0000	ca.50 /72D-79000		ISO 178 / ASTM		
Modulus of elasticity	N/mm ²	ca.6000	ca.5500)	ca.5000				
Water absorption W3	%	<2	<3.5		<5		DIN 53495 /ASTMD-570		
Coefficient of thermal expansion	1/K	3.4 x 10 ⁻⁵	3.4 x 10		3.4 x 10 ⁻⁵		ASTMD-696		
Calorific value	MJ/kg	ca. 16.5	ca. 16.5		ca. 16.5		DIN 51 900		
Behaviour in dry heat	°C	7B, 140	7B, 140		7B, 140		EN 12722		
Behaviour in moist heat	°C	8A, 100	8A, 100		8A, 100		EN 12721		
Ignition temperature	°C	>350	>350		>350		ASTMD-2863		
Light fastness	Grey scale	(4-5)	(4-5)		(4-5	,	ISO 4892		
	Blue scale	(6-7)	(6-7)		(6-7	,	ISO 4892		
Abrasion stress	Revolutions	2A >1000	2A >1000		2A >1000		DIN 68 861 part 2 DIN EN438-2		
Scratch stress	N	>1000 4B	>1000 4B		>1000 4B		DIN 68 861 part 4		
Schalen stress		4D	40		40		Div 08 801 part 4		
Resistance to chemicals		1B	1B		1B		DIN 68 861 part 1/ASTMD-792A		
Fungal / bacterial resistance		Does not support	microbial growth	pass			ASTM G-21		
Stain resistance		See appendix 1	iniciosiai growa	puoo			EN438 / NEMA LD3-3.6		
Tensile strength	psi	6500					ASTMD638		
Elongation at yield	%	0.2					ASTMD-638		
Lustre stable resistance	g/1000cycl	0.05					ASTMD-4060		
Impact resistance	0	unbreakable					ANSI Z124.6		
High temp resistance & Boiling water resistance		unifluential					NEMA LD 3-3.3 & 3-3.6		
	0	No moto stine film				-1			
Packaging &	SHEETS:	No protective film					m domogo)		
Identification		ce up, 1 colour, 1 siz					• /		
	 > Each sheet identified with a peelable label adhered to one corner of the top 'face' surface. > Each label to have 4 copies of same information for manufacturing use (4 separate peel off labels) <u>At minimum label to include: Barcode, Design Name, Item Code and batch number.</u> Sheet material information to be printed on underside of checks. 								
	 Sheet material information to be printed on underside of sheets (product and batch traceability). <u>At Minimum: Product code, Description / Décor, Batch and/or date Information</u> PALLETS: <u>No MDF (Medium Density Fibre board)</u> Pallet configuration to be agreed in advance of any delivery (drawing specifics to be agreed) 								
	<u>Central bearer in pallet and build out from centres (for fork lift entry)</u> <u>Clearance considerations for forks: 70mm height, (x2) 175mm widths, 750mm central gap</u>								
	> Pallet to always be larger than the material itself (no overhanging material).								
	> Pallet labels on all 4 sides (design name, item code, quantity and all associated batch numbers).								
	 > On each long side of pallet: Décor, Décor code and size to be clearly stamped / written on. > Cover (hardboard normally) required for top sheet for protection. > Minimum of 4 straps with corner protectors. 								
	> Max Sheets / Pallet: 4 <u>mm</u> (x60), <u>6mm</u> (x20), <u>12mm</u> (x15)								
	> Max Sheete	/ Pallet: 4mm (v60)), 6mm (x20) 11	2mm (x15)					

CHARACTERISTIC / PROPER	TY UNIT: SPECIFICATION:	DETAIL:
Surface Defects	At given viewing distance and lighting: Maximum contamination area equivalent to 1.0mm/m proportional to the sheet size under inspection. With a target of '0 defects'. <u>Example(s):</u> 1 Spot or group of spots not to exceed 1.0mm / m. Or simply - If eye immediately drawn to any surface variant / defect.	EN 438 // ANSI / NEMA LD3- 2000
Performance Testing	Customer / Supplier agreed criteria from selected standards.	EN 438 // ANSI / NEMA LD3- 2000
Non-Conforming Product	Edge defects, broken corners, contamination etc will be inspected against standard AQI Sheets will be rejected on individual merit and basis, however if over Acceptable Quality L full pallet / batch / delivery may be rejected.	

APPENDIX 1:

	12.3	3mm	6mm	4mm		
NEMA LD 3 2000	Cleanability	Stain	Cleanability	Stain	Cleanability	Stain
	rating	rating	rating	rating	rating	rating
Distilled Water	0	•	0	•	0	•
Tap Water	0	٠	0	٠	0	٠
Ethyl Alcohol, 50% Solution	0	٠	0	٠	0	٠
Isopropyl Alcohol, 70% Solution	0	٠	0	٠	0	٠
VM&P Naphtha/Ethyl Alcohol,	0	٠	0	•	0	٠
50/50 Solution	0					
Nail Polish Remover	0	٠	0	٠	0	٠
Acetone	0	٠	0	٠	0	٠
Bar Soap Solution, 5% in Water	0	٠	0	٠	0	٠
Household Detergent, 5% in Water	0	٠	0	•	0	٠
Household Ammonia	0	٠	0	٠	0	٠
Tomato Ketchup	0	٠	0	٠	0	٠
Vegetable Oil	0	٠	0	٠	0	٠
Trisodium Phosphate, 1% Solution	0	٠	0	٠	0	٠
Coffee	0	٠	0	•	0	٠
Теа	0	٠	0	•	0	٠
Whole Milk	0	٠	0	٠	0	٠
Citric Acid, 10% Solution	0	٠	0	٠	0	٠
Yellow Mustard	0	٠	0	•	0	٠
10% Povidone lodine	3	٠	3	•	3	٠
Distilled Vinegar	0	٠	0	•	0	٠
Lipstick (Red)	1	٠	1	•	1	٠
Washable Ink (blue)	1	٠	1	•	1	٠
Grape Juice	0	٠	0	•	0	٠
Red Food Dye	1	٠	1	٠	1	٠
Beet Juice	0	٠	0	٠	0	٠
Merthiolate	1	٠	1	٠	1	٠
Wax Crayon	1	٠	1	٠	1	٠
Shoe Polish (Black Paste)	3	٠	3	٠	3	٠
Ball Pen Ink	3	٠	3	٠	3	٠
Felt Pen Ink	3	٠	3	٠	3	٠
Black Permanent Marker	3	٠	3	٠	3	٠
#2 Pencil	3	٠	3	٠	3	٠
Supermarket Stamp Ink (Purple)	1	٠	1	•	1	٠

0 Rating - Staining reagent removed with a cellulose sponge moistened with water.

1 Rating - Staining reagent removed with a cellulose sponge moistened with water and commercial cleanser.

2 Rating - Staining reagent removed with a stiff nylon bristle brush with a commercial cleanser and baking soda.

3 Rating - Staining reagent removed with a cotton ball saturated with acetone.

4 Rating - Staining reagent removed with a cotton ball saturated with hypochlorite bleach.

5 Rating - Stains remaining after the previous cleaning steps are rated 5.

• = No Effect

NOTE: Cleaning and rating performed by NEMA LD 3 2000 protocol.

INVOLVEMENTS:

Technical David Grant Purchasing Paul Howell Business Manager Logistics Director

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