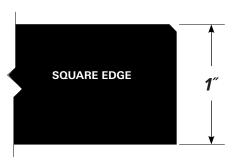


PHENOLIC RESIN WORK SURFACES

PRODUCT DEFINITION

Manufactured using a unique Electron Beam Curing (EBC) technology, Phenolic Resin Work Surfaces are easy to clean and show a high resistance to a large number of aggressive chemicals. It also has inherent antibacterial properties without the addition of microbial additives. Phenolic Resin Work Surfaces provide an ideal choice in environments where hygiene, avoidance of contamination, sustainability, ergonomics and safety are of importance. Phenolic Resin Work Surfaces are extensively used in a wide variety of lab environments worldwide, including chemical, physical, analytical and microbiological laboratories.





EDGE PROFILE

SPECIFICATIONS:

Thickness: 1" std.

Maximum size: 60" x 120" or 73" x 96"

RESISTANCE TO CHEMICALS:

Resistant to diluted strong bases and acids. Easy to clean and disinfect, given its resistance to common lab cleaners:

- Acetone
- Toluene
- Etyhlic and Methylic Alcohol
- Dimethylformamide -DMF
- Dimethylsulphoxide -DMSO
- Tetrahydrofuran -THF
- Turpentine
- Methyl Chetone
- Ammonia
- Caustic Soda
- Potassium Hydroxide, up to 10%

CARE AND MAINTENANCE

Surface can be cleaned with soapy water and common organic solvents (alcohol, benzine, acetone, methyl ethyl keytone, perchloroethylene). Avoid use of detergents with high concentrations of strong acids or bases (i.e. formic, hydrochloric, sulfuric and nitric acid).

Do not use abrasive pads or powders which may cause damage.

PS - WS-PHENOLIC - v.1.3



PHENOLIC RESIN WORK SURFACES

Decorative high-pressure compact laminates according to EN 438-4:2005 of thicknesses of 6 mm (\pm 1/4 in) or greater for interior use. Sheets consisting of layers of wood-based fibres (paper and/or wood) impregnated with thermosetting resins and surface layer(\$) on one or both sides, having decorative colours or designs. The surface layers are impregnated with melamine based resins. These components are bonded together with simultaneous application of heat (\ge 150° C / \ge 302° F) and high specific pressure (> 7 MPa) to obtain a homogeneous non-porous material with increased density and integral decorative surface. They are available in the Standard grade (CGS) and in the Fire-Retardant grade (CGF).

Properties	Test method	Property or attribute	Unit		
				Grade: CGS Standard: EN 438-4 Colour/Decor: All	
Surface quality					
burface quality			mm ² /m ²		≤ 1
Surface quality	EN 438-2 : 4	Spots, dirt, similar surface defects	in ² /ft ²	≤ 0.0001	
		Fibres, hairs & scratches	mm/m ²		≤ 10
2:		ribres, nairs & scratches	in/ft²	≤	0.036
Dimensional tolerances				60<+<	8.0: +/- 0.40
Dimensional tolerances	EN 438-2 : 5	Thickness	mm		12.0: +/- 0.50
					16.0: +/- 0.60
					20.0: +/- 0.70
					25.0: +/- 0.80
				0.2362 ≤ t < 0	.3150 : +/- 0.0157
			in	0.3150 ≤ t < 0	.4724 : +/- 0.0197
				0.4724 ≤ t < 0	.6299 : +/- 0.0236
				0.6299 ≤ t < 0	.7874 : +/- 0.0275
				0.7874 ≤ t ≤ 0	.9842 : +/- 0.0315
	EN 438-2 : 9	Flatness	mm/m		≤ 2
	EN 438-2 : 9	riamess	in/ft	≤	0.024
	EN 438-2 : 6	Length & width	mm	+	5 / - 0
			in	+ 0.1	968 / - 0
	EN 438-2 : 7	Straightness of edges	mm/m		≤ 1
	LIN 430-Z . /	Sirdigililess of edges	in/ft	≤	0.012
	Trespa Standard	Squareness	mm	2550 x 1860 = max. different	ence between diagonals (x-y) = 4
					ence between diagonals (x-y) = 4
				100.39 x 73.23 = max. differer	ice between diagonals (x-y) = 0.157
			""	120.08 x 60.24 = max. differen	ice between diagonals (x-y) = 0.1575
Physical properties			1 1		150
Resistance to surface wear	EN 438-2 : 10	Wear resistance - Revolutions (min)	Initial point		≥ 150
D		I I are the action	Wear value		≥ 350
Resistance to impact by large diameter ball	EN 438-2 : 21	Indentation diameter - 6 ≤ t mm with drop height 1.8m	mm		≤ 10
Resistance to scratching	EN 438-2 : 25	Force	Rating (min)	≥ 3	
Resistance to dry heat (160°C/320°F)	EN 438-2 : 16	Appearance	Rating (min)		≥ 4
Resistance to wet heat (100°C/212°F)	EN 12721	Appearance	Rating (min)		≥ 4
		Mass increase (% max)	t ≥ 6 mm		≤ 1
Resistance to immersion in boiling water	EN 438-2 : 12	Thickness increase (% max)	t ≥ 6 mm	≤ 1	
		Appearance	Rating (min)	≥ 4	
Dimensional stability at elevated temperature Resistance to staining	EN 438-2 : 17 EN 438-2 : 26	C Le le la Li	Longitudinal %	•	: 0.30
		Cumulative dimensional change	Transversal %	≤ 0.60	
		Appearance Pating (min)	Group 1 & 2	5	
kesisiance to staining	EIN 430-2 : 20	Appearance - Rating (min)	Group 3		4
Light fastness (xenon arc)	EN 438-2 : 27	Contrast (Wool scale)	ASTM G53-91 (314-400nm)	≥ 6	
Resistance to water vapour	EN 438-2 : 14	Appearance	Rating (min)	≥ 4	
Resistance to cigarette burns	EN 438-2 : 30	Appearance	Rating (min)	≥ 3	
Resistance to crazing	EN 438-2 : 24	Appearance	Grade (min)	≥ 4	
Modulus of elasticity	EN ISO 178	Stress	MPa	≥ 9000	
Flexural strength	EN ISO 178	Stress	MPa	≥ 100	
Tensile strength	EN ISO 527-2	Stress	MPa	≥ 70	
Density	EN ISO 1183	Density	g/cm ³	≥ 1.35	
					1 : ≥ 2000
Resistance to fixings	ISO 13894-1	Pull out strength	N	8 mm : ≥ 3000	
F				≥ 10 mm : ≥ 4000	
Fire performance					
Europe		Classification t ≥ 6 mm / 0.2362 in	Euroclass		B-s2, d0
Reaction to Fire	EN 13501-1			D-s2, d0	
	LIA 19201-1	Classification t ≥ 8 mm / 0.3150 in (Metal Frame)	Euroclass	D-52, dO	B-s1, d0
Redelion to Tite					
		(Meidi Franie)			
North America			Class	В	A
North America	ΔSTM F8.4 /I II 722	Classification	Class	B 26-75	A 0.25
	ASTM E84/UL 723	Classification Flame Spread Index	FSI	26-75	0-25
North America	ASTM E84/UL 723	Classification			

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