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AN ASME-LIANHE ZAOBAO AWARD

新加坡金字品牌奖

Singapore  
 Prestige  
 Brand Award 13

Winner, SPBA - Established Brands

## **TECHNICAL SPECIFICATIONS**

Product : **LUCRITE® Premium Solid Surface**

General Test - IAPMO PS18-66 Test Method : International Association Of Plumbing & Mechanical Officials (IAPMO) PS18 -66

Testing Body : TUV SUD PSB Singapore

No	Characteristics	IAPMO PS18-66 Requirements	Test Results	Test
1	Impact Resistance	Shall not show cracks	Passed	PS18-66
2	Barcol Hardness	min. 55 ~ 65	60	ASTM D2583
3	Cigarette Test	Shall not be more than 0.38mm gel removed	0.02	PS18-66
4	Compressive Properties : Compressive strength - mean (maximum)	NA	384Mpa	ISO 604-2002
5	Density - mean	NA	1.84g/cm <sup>3</sup>	ASTM D792-93
6	Oven test for cracking or crazing	After oven test at 74 ± 2° C for 10 days, evidence of cracking or crazing should not be shown	Passed	PS18-66
7	Stain Resistance			PS18-66
a	Coffee	No Effect	Shall be unaffected * Stain can be removed by dry or wet tissue paper	
b	Washing Detergent	No Effect		
c	Acetone	No Effect		
d	Olive Oil	No Effect		
e	Lipstick	* Stain observed but was easily removed		
f	Fly Spray	No Effect		
g	6% Urea	No Effect		
h	Alcohol	No Effect		
i	Shoe Polish (paste form)	* Stain observed but was easily removed		



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j	10% Household Ammonia Solution	No Effect		
k	Amy Acetate	No Effect		
l	Trisodium Phosphate	No Effect		
m	Bluing	* Stain observed but was easily removed		
8	Stain		Shall be unaffected ** except for superficial stains which can be removed by a light application of a mild abrasive	
a	Tea	No Effect		
b	Ink Washable	No Effect		
c	1% Iodine	** Stain observed but was easily removed		
d	Vinegar	No Effect		
9	Tensile Properties			ASTM D638:2014
	a) Tensile strength -mean	NA	38.8 Mpa	
	b) Elongation at break - mean		0.60%	
	c) Tensile modulus-mean		10653 Mpa	
10	Water Absorption , average	Shall not absorb water in excess of 0.58% in 24hrs	0.04%	ASTM D570
	a) % increase in weight, average		0.03%	
	b) % Soluble Matter Loss, average		0.01%	



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11	Evaluation of Toxic Fumes	Index R to be less than 1 max when tested and assessed according to NF X 70-100 with R calculated in accordance with Annex B	R<0.3	BS 6853:1999 Annex B
12	Evaluation of Fire Effluents	Acid gas, CO, CO2 generation and volatile organic compounds based on Singapore Clean Air regulations	Passed	CEI IEC 754-1
13	Fire Performance	Reaction to fire performance when exposed to thermal attack by single burning item	Reaction to fire classification : B-s1, d0	BS EN 13823
		Ignitability of product when subject to direct impingement of flame		BS EN ISO 11925-2:2010
14	Flammability Test	Fire Propagation BS476 Part 6	Class 1	ASTM E84
		Spread of Fire BS476 Part 7	Class 0	
15	Fungal Test	Test of growth of Fungal and bacterial	No Growth	ASTM G21-96
16	Bacteria Test	Test of growth of Fungal and bacterial	No Growth	ASTM G22-76
17	Colour Fastness & Aging Test	Performance Std for solid surface after 200hrs , req < 2 CIE	1.88 CIE	ANSI/ICPA-SS-1-2001