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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





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No.	Characteristics	Test Standards	Test Results
1	Water Absorption, Average	BS EN 14617-1:2005	0.02%
	a. increase in weight, average		
2	Average Density	BS EN 14617-1:2005	2326 kg/m ³
3	Flexural Strength Test, Average	BS EN 14617-2:2005	59.6 N/mm ²
4	Impact Resistance Test,	BS EN 14617-9:2005	7.28 J
5	Compressive Strength	BS EN 14617-15:2005	167 N/mm ²
6	Moh's Scratch Hardness Test	SS 301	6 Mohs
7	Abrasion Resistance after 500 cycles	ASTM D4060 (500 cycles)	23
	a. Weight Index, average		
	b. Weight Loss (mg), average		
8	Thermal Shock Resistance Test	BS EN 14617-6: 2005	0.06
	a. Change in mass after 20 cycles (%), average		
	b. Change in flexural (%),		
	c. Observation		
9	Boiling Water	NEMA LD3 2000 3.5	No effect. No change in colour or surface finish
10	Stain Resistance Characteristics	PS 18: 1966	
	a. Coffee		
	b. Washing Detergent		
	c. Acetone		
	d. Olive Oil		
	e. Lipstick		
	f. Fly Spray		
	g. 6% Urea		
	h. Alcohol		
	i. Shoe Polish		
	j. 10% Household Ammonia Solution		
	k. 10% Citric Acid Solution		
	l. Amy Acetate		
	m. Trisodium Phosphate		
	a. Tea		
	b. Ink Washable		
	c. 1% Iodine		
d. Vinegar			
e. Bluing			
Remarks:			
For Stain Test, " * " denotes that noticeable mark was observed but the stain was able to be removed by dry or wet tissue paper. " ** " denotes that the stain was easily removed by a light application of a mild abrasive.			



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11	Colour Fading Test (Gloss 60°)	ASTM D2244 : 2016	
		ASTM D523 : 2014	
	a. Specimen 1 (Before/After Exposure)		49 / 45
	a. Specimen 2 (Before/After Exposure)		45 / 42
12	Cigarette Test	ANSI Z 124.6	No ignition or progressive glow of the surface during or after contact with the lighted cigarettes
	a. Stuyvesant		
	b. Camel		
	c. Winston		
13	Chemical Resistance Test	BS EN 14617-10 :2005	Passed
	a. Hydrochloric Acid		Class C4
	b. Sodium Hydroxide		Class C4
14	Antimicrobial Activity Evaluation	ASTM E 2180-18	<i>Percent Reduction</i>
	a. Staphylococcus aureus (ATCC		More than 99.997
	b. Klebsiella pneumoniae (ATCC		More than 99.998

15	Fire Propagation	BS476 Part 6:1989	$i^1 = 0.0$
			$i^2 = 2.7$
			$i^3 = 2.0$
			Index Overall Performance= 4.7
16	Surface Spread of Flame	BS476 Part 7:1989	Class 1