

**TEST REPORT**

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Applicant : Asia Vinyl & Rubber Industries.
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Manufacturer : Asia Vinyl & Rubber Industries.
Buyer : Self-Reference
Color : Blue
Submitted Sample Size : 300 x 300 mm
Sample description : Homogenous Flooring Roll

*For and on behalf of
Tti Testing Laboratories*

Ali Ashraf
General Manager Operations



Resilient Floor Coverings – Determination of Wear Resistance
Part 2: Frick Taber Tester
BS EN 660-2 (Modified)

Report Number	: PI-01189-21
Sample Description	: Homogeneous Flooring Roll - Blue
Thickness	: 2.0 mm
Abraded Wheel	: CS-10
Abrasive Corundum Used	: No
Weight Applied	: 500 grams
Conditioning of test specimen (Prior to testing)	: 24 hours at 23±2 °C and 50±5% R.H.
Testing Atmosphere	: Temperature 21°C, Relative humidity between 45-55 %

Test Results:

	Specimen 1	Specimen 2	Specimen 3
Density - gram/cm ³	1.660	1.671	1.682
Loss in mass after Cycle 1, 1000 rev, and cleaning with dry cloth, mg	25	31	36
Cycle2, 2000 rev, mg	35	39	51
Cycle 3, 3000 revs, mg	80	75	86
Cycle 4, 4000 revs, mg	101	90	98
Cycle 5, 5000 revs, mg (Post Conditioning)	150	125	165
Cycle 6, 30,000 revs, mg	416	498	621
Average mass loss, mg per 100 revolution	1.39	1.66	2.07
Average volume loss, mm ³ per 100 revolution	0.84	0.99	1.23

	Mean Value
Average loss, mg per 100 revolution	1.71
Average Volume loss, mm ³ per 100 revolution	1.02

Color Change	4-0 @ 30,000 rev.
Appearance change	No abnormal surface appearance observed.

Conclusion: With regard to the wear resistance assessment, according to BS EN 660-2 (Volume loss method), the sample submitted under reference "Homogeneous Flooring Roll-Blue" has achieved a mean volume loss of 1.02 mm³.

Remarks: We have tested these sample for the requirement of Class 32/41 as per EN 13845:2017 (Table2).



Classification Requirement for Level of Use				
Class	Symbol	Level of use	Minimum overall thickness Nominal Value (mm)	Effect of Wear Resistance (Cycles)
32		Commercial General	2.0	30,000
41		Industrial Moderate		

Image of Tested Specimen



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