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**Manufacturer** : Asia Vinyl & Rubber Industries.  
**Buyer** : Self-Reference  
**Color** : Sky Blue  
**Submitted Sample Size** : 300 x 300 mm  
**Sample description** : Vinyl Floor Tile

*For and on behalf of  
Tti Testing Laboratories*

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**Ali Ashraf**  
*General Manager Operations*



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

<b>Sample Description</b>	: Vinyl Floor Tile-Sky Blue
<b>Thickness</b>	: 2.0 mm
<b>Abraded Wheel</b>	: CS-10
<b>Abrasive Corundum Used</b>	: No
<b>Weight Applied</b>	: 500 grams
<b>Conditioning of test specimen (Prior to testing)</b>	: 24 hours at 23±2 °C and 50±5% R.H.
<b>Testing Atmosphere</b>	: Temperature 21°C, Relative humidity between 45-55 %

**Test Results:**



	Specimen 1	Specimen 2	Specimen 3
Density - gram/cm <sup>3</sup>	<b>1.825</b>	<b>1.817</b>	<b>1.875</b>
Loss in mass after Cycle 1, 1000 rev, and cleaning with dry cloth, mg	41	50	48
Cycle 2, 2000 rev, mg	58	72	75
Cycle 3, 3000 revs, mg	88	97	91
Cycle 4, 4000 revs, mg	118	145	154
Cycle 5, 5000 revs, mg (Post Conditioning)	158	164	17
Cycle 6, 30,000 revs, mg	881	921	984
Average mass loss, mg per 100 revolution	2.94	3.07	3.28
Average volume loss, mm <sup>3</sup> per 100 revolution	1.61	1.69	1.75

	Mean Value
Average loss, mg per 100 revolution	3.10
Average Volume loss, mm <sup>3</sup> per 100 revolution	1.68

Color Change	3-0 @ 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 "Vinyl Floor Tile-Sky Blue" has achieved a mean volume loss of 1.68 mm<sup>3</sup>.

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

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

**Image of Tested Specimen**



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