



Report No: 29-2	Company Name: ARFEN İNŞAAT TAAH. SAN. VE TİC. A.Ş.
Report Date: 10.05.2018	Reference: ASTM D 543
Receiving Date: 24.04.2018	Sample: PVS Sheet Samples

ANALYSIS and EVALUATION RESULTS

Chemical Resistance properties of PVC Sheet samples produced by ARFEN İNŞAAT TAAH. SAN. VE TİC. A.Ş. company were determined according to ASTM D 543, Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents. Obtained results were given following.

CHEMICAL	OBSERVATION
Acetic Acid (% 5 v/v)	No Change
Acetone	Fading, Softening, Swelling, Delamination
Ammonium Hydroxide (% 10 v/v)	No Change
Citric Acid (% 1 w/v)	No Change
Ethyl acetate	Fading, Softening, Swelling, Delamination
Ethyl alcohol (% 95 v/v)	No Change
Hydrochloric acid (% 10 v/v)	No Change
Hydrogen peroxide (% 3 v/v)	No Change
Sodium carbonate (% 20 w/v)	No Change
Sodium chloride (% 10 w/v)	No Change
Sodium hydroxide (% 10 w/v)	No Change
Sulfuric acid (% 30 v/v)	No Change

ANALYSTS: Asst. Prof. Dr. Mehmet Arif KAYA

DEPUTY CHAIRPERSON Prof. Dr. Sinan ŞEN

A. Kaya



Report No: 30-2	Company Name: ARFEN İNŞAAT TAAH. SAN. VE TİC. A.Ş.
Report Date: 10.05.2018	Reference: ASTM D 6578
Receiving Date: 24.04.2018	Sample: PVS Sheet Samples

ANALYSIS and EVALUATION RESULTS

The Cleanability and Stain Resistance properties of PVC sheet samples produced by ARFEN İNŞAAT TAAH. SAN. VE TİC. A.Ş. company have been determined according to the modified version of ASTM D 6578, Standard Practice for Determination of Graffiti Resistance. The samples have been exposed to various staining agents at room temperature for 3 days. Then cleaning process was applied as cycle with using Scotch Brite™ brand sponge and denature alcohol. Number of cleaning cycles required to remove the stain from the surface was determined. Obtained results were given following.

STAINING AGENT	CYCLE NUMBER
Pencil	12
Pen (Black)	23
Shoe Polish (Black)	17
Batticon™	45
Ketchup	14
Chocolate Syrup	9
Coffee	65
Tea	> 250
Soda	5
Bleach	2

ANALYST: Asst. Prof. Dr. Mehmet KAYA

DEPUTY CHAIRPERSON: Prof. Dr. Siran SEN

