















**At a glance**

						
						
-	See note 8 below	See note 3 below	See note 9 and 10 -	- below		UL-94 HB

**1. Description**

Milmark™ Tags, Plates and Signs are constructed in acrylic. The information are permanently engraved into the material. They are used in diverse industrial environments. Suitable for moderately hash environment.

**2. Product Code**

MCM-415AC

**3. Certificate**

Weathering test ISO 4892-2:2006

**4. Compliance standard**

Singapore Standard SS 508: Part 3: 2004 ISO 7010 : 2003

**5. Thickness**

Available in 2.0mm, 3.0mm, 4.0mm, 5.0mm (without adhesive backing)

**6. Substrate Type**

Polymethyl methacrylate (PMMA) or commonly known as acrylic

**7. Average Outdoor Durability**

2 years (Average expected outdoor life of product will depend on user definition of failure, climatic conditions, mounting techniques and material color).

**8. Physical Properties**

<b>Specific Gravity</b>	<b>1.19</b>
Hardness	M-100
Absorptivity Water (24hrs)	0.3%
Tension : Coefficient of rupture : Coefficient of elasticity	700kg/cm <sup>2</sup> 28,000kg/cm <sup>2</sup>
Bending: Coefficient of rupture : Coefficient of elasticity	1.5kg/cm <sup>2</sup> 28,000kg/cm <sup>2</sup>
Heat distortion temperature	80°C
Coefficient of linear expression	6 x 10

**9. Chemical Resistance to Splash**

Sulfuric Acid 60°C	Stability to 60%
Hydrochloric Acid 60°C	Stability to 30%
Nitric Acid 60°C	Stability to 20%
Caustic Soda 60°C	Stability to 50%
Aqueous Ammonia 60°C	Stability to 18%
Acetic Acid 60°C	Dissolvable
Chlorine Water	Change to dark colour
Iodine Tincture	Easily Colorate

**10. Solvent Resistant Properties**

**Corrosion resistant at room temperature:**

Hexane, Octane, Formaldehyde 40%, Methanol, Ethanol, Glycol, Petroleum (contain a little Aromatic groups)

**Expansion or track at room temperature:**

Butanol, Isopropanol, Carbon tetrachloride

**Dissolve at room temperature:**

Chloroform, Benzene, Toluene, Xylene, Acetylene, Dichloride, Acetone, Acetic Ester

**11. Note**

1. We strongly believe that our products sold should be tested thoroughly under end-use conditions to ensure they meet the requirements of your application.
2. We suggest that you clean thoroughly the surfaces to which the product will be applied from dust, grease or any contamination. Failing to do so could affect the adhesion strength of the product. Before you apply the product on freshly lacquered or painted surfaces, ensure that the surfaces are completely dried and cured.
3. We offer the test data and test results for your general information only. We do not recommend that you use this information for designs and specifications, or on as meeting specified performance criteria. If you are seeking to develop specifications or performance criteria for a specific product application, please call us for further information.
4. Our product compliance information is drawn from :
  - (a) test results conducted by a third party, independent laboratory using established methods, or
  - (b) information offered by the respective manufacturer or supplier.

Thus, we do not represent nor warrant (express or implied), nor do we assume liability in connection with the use of this information.

**12. Warranty**

1. We guarantee our products to be free from manufacturing defects for one (1) year from the date of purchase. We shall, at our option, replace the product found to be defective within this warranty period.

2. This warranty extends to the original buyer of this product only. All others are not eligible to return products to us for warranty consideration.

3. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on our part.

4. In no event shall we be held responsible or liable for any loss, damage, expense, or incidental or consequential damages of any kind arising in connection with the use, or inability to use, our products.

5. We require that samples of the failure be submitted when a claim is made and before a remedy is offered