



# DURABILITY OF YOUR OUTDOOR MATERIAL PRODUCTS

**B**uilding materials are expected to last for decades but they are always subjected to deterioration by moisture, acid rain, sunlight and heat. Prolonged exposure to changing environment would cause accelerated aging on materials which include cracking, crazing, colour fading and yellowing, depending on how sensitive the material is to the environmental conditions both indoors and outdoors.

Our Xenon-arc Test Chamber and UV Test Chamber simulate various accelerate environmental conditions that could be customized to suit your needs. On account of the outcomes, you can predict your products' durability and make decision on choosing new materials or improving the quality of the existing materials, so as to minimize the lead time and hence to reduce the production cost.

Reference standards: ASTM D2565 / ASTM D3424 / ASTM D4101/ASTM D4459 / ASTM G154 / ASTM G155 / ISO 4892-2 / ISO 4892-3 / SAE J2412 / SAE J2527 / BS 2782-5 and the customer's specific needs, Xenon-arc Test Chamber or UV Test Chamber can simulate the followings,

- **Water spray: to simulate outdoor moisture attack**
- **Humidity control (Xenon-arc Test Chamber) : suitable for indoor building materials and hardline**
- **Temperature control: affects the rate of degradation**
- **Sunlight simulators**
- **UV simulators**
- **Acid rain simulators, etc.**

**More testing services are available. Please contact our staff of Textile and Material Department.**

**Head Office :** 10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Unit B, 10/F, Block 1, Tai Ping Industrial Centre, No. 57 Ting Kok Road, Tai Po, N.T., Hong Kong

**Tel :** +852 3188 8845 / 3188 8846

**Fax :** +852 3188 8840

**E-mail :** [hkcmd@stc.group](mailto:hkcmd@stc.group)

**Website :** [www.stc.group](http://www.stc.group)







## 戶外產品 耐久性測試

**建築材料** 理應在數十年後仍然保持原狀，但它們經常受到濕度、酸雨、陽光及熱度的侵蝕，長期處於多變的環境會使這些物料加速老化，出現裂痕、龜裂、褪色及泛黃，而損害程度則視乎物料對室內外環境因子的敏感度。

我們紡織及物料部的氙燈測試箱 (Xenon-arc Test Chamber) 及紫外光測試箱 (UV Test Chamber) 可按照客戶的測試要求模仿多種加速老化情況。根據我們準確可靠的測試，您可評估產品的耐久性並挑選合適的新材料或提高現有物料的質素，從而減低生產時間及成本。

相關標準：ASTM D2565 / ASTM D3424 / ASTM D4101 / ASTM D4459 / ASTM G154 / ASTM G155 / ISO 4892-2 / ISO 4892-3 / SAE J2412 / SAE J2527 / BS 2782-5或客戶特定要求。氙燈測試箱 (Xenon-arc Test Chamber) 或紫外光測試箱 (UV Test Chamber) 可以模擬以下不同環境變化：

- 噴霧：模擬戶外潮濕侵蝕
- 濕度控制(氙燈測試箱)：適用於室內建築材料及五金
- 溫度控制：影響降解率
- 模擬陽光
- 模擬紫外光
- 模擬酸雨等

如有任何垂詢，歡迎與我們紡織及物料部聯絡

總部地址：香港新界大埔工業邨大宏街10號

紡織及物料部地址：香港新界大埔汀角路57號太平工業中心1座10樓B室

電話：+852 3188 8845 / 3188 8846

傳真：+852 3188 8840

電郵：hkcmd@stc.group

網址：www.stc.group



☎ +852 2666 1888

☎ +852 2664 4353

📍 香港新界大埔工業邨大宏街10號

✉ hkcmd@stc.group

www.stc.group

