FSTE Suction Cup Aging Test Report

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FSTE well-designed Material Suction Cup vs. Ordinary Material Suction Cup Aging Test Description

Test Period:

This aging comparison test involves two suction cup products (Group A and Group B) and was conducted from March 1, 2020, lasting 180 days, until August 28, 2020.

Test Environment:

The test was conducted in Shenzhen, China, with both suction cups placed outdoors under natural environmental conditions, exposed to ultraviolet light, rain, dust, high temperatures, and other aging factors to simulate the real-world long-term outdoor usage of the suction cups. (As shown in the image below)

Test Comparison Group A	Test Comparison Group B
	

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Test Comparison Group A: Detailed Comparison After 180 Days	
FSTE well-designed Material Suction Cup	Ordinary Material Suction Cup
	
The surface of the suction cup remains in good condition, with no visible cracks or peeling. The functionality is intact, and the appearance is still relatively new, demonstrating excellent weather resistance and stability.	The surface of the ordinary material suction cup shows extensive cracking and aging, with noticeable hardening at the edges. This affects the adhesion function, and its aging resistance is poor, making it no longer suitable for continued use.

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Test Comparison Group B: Detailed Comparison After 180 Days	
FSTE well-designed Material Suction Cup	Ordinary Material Suction Cup
	
The FSTE well-designed material suction cup demonstrated excellent weather resistance and stability during the 180-day aging test. • The surface of the suction cup showed no noticeable cracks or signs of aging. • The adhesion function remained normal, with a good appearance and strong adhesion power. • Even under extreme weather conditions, the quality of the well-designed material suction cup was not significantly affected, proving its reliability for long-term use.	The aging performance of the ordinary material suction cup was poor, with noticeable cracks and severe aging signs: • The surface of the suction cup exhibited large cracks, affecting its adhesion performance. • The edges of the suction cup hardened and became brittle, significantly impacting its reliability for long-term use. • In the later stages of the test, the adhesion strength of the ordinary suction cup decreased significantly, making it unsuitable for continued use.

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Display of 2 ordinary material suction cups	
Test the ordinary products of Group A	Test the ordinary products of Group B
	

Conclusion:

Through comparative testing, **FSTE well-designed compound suction cups** demonstrated extremely superior aging resistance. We recommend them for applications requiring long-term outdoor exposure, such as automotive suction cups and outdoor advertising suction cups. In contrast, **ordinary material suction cups** are suitable for applications with shorter use cycles.

Suggestions:

- For applications requiring high durability and long-term stability, prioritize **FSTE well-designed compound suction cups.**
- For budget-constrained applications that don't require long-term use, **ordinary material suction cups** can be a lower-cost option.

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Test Background Information:

This comparative test aimed to verify the aging resistance of FSTE well-designed compound suction cups and ordinary material suction cups in long-term natural environments, especially under conditions like UV radiation, rain, dust, and high temperatures. This allows us to provide clients with reliable data support, helping them choose appropriate suction cup products for different application scenarios. The testing focused not only on the material's appearance but also on the suction cup's functionality, suction power, and long-term stability.