

GreenDee 技术资料

Z-FlexFirm | 产品介绍审核节选

- 保留原资料第 1、3-5、7-8、11-12 页。
- 用于核对 INCI、粉末形态、1-30% 供应商宽范围，以及皮肤/头发成膜的定性展示。
- 已删除品牌上市案例、供应商联系页与缺少公开方法支撑的 >300℃ 宣称。
- 原页中的紧致、皱纹和热保护措施属于供应商定位；没有人体、成品或定量功效报告支持。



Z-FlexFirm Introduction

- Versatile Film Former



PRODUCT

3

About Z-FlexFirm

Film formers are essential ingredients in personal care products, and a multifunctional film former is highly demanded in the market.

Z-FlexFirm is exactly such a film former, which is a type of polymer. It creates a transparent, flexible, and consistent film that can be easily peeled off, enabling formulators to precisely manage product performance throughout the entire user experience.



Z-FlexFirm Characteristics

INCI: Sodium Polystyrene Sulfonate

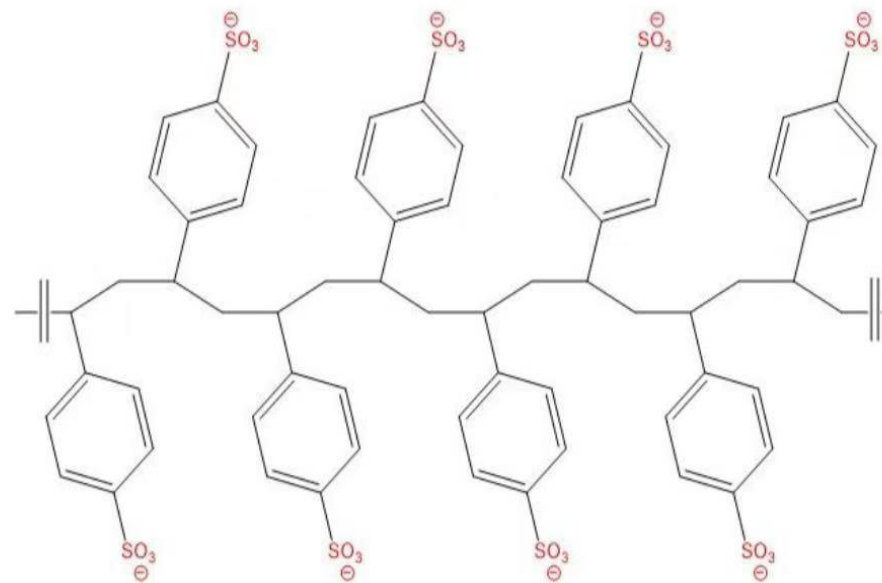
Appearance: White to Off-white Powder

Application: skin and hair care

Recommended Dosage: 1- 30%

Benefits:

- Preservative-free
- Mild to skin
- Easy to use
- Meet global regulatory standards



An ultra-pure, high-mass polymer with a unique anionic framework, offering properties and performance that set it apart from all other materials.

Z-FlexFirm

Key Features on Skin Care

It creates transparent, flexible films that contract as they dry, rapidly neutralizes static electricity, carries a strong negative charge, and contributes to lowering surface tension.

- More flexible and elastic film
- Intense tightening sensation
- Reduce wrinkles and expression lines
- Pleasant sensory feel
- Fully water-soluble
- Capable of producing transparency
- It enables both crackle finishes and, when blended with PUA, a full peelable film (right pics)



a thin layer delivers the effect



it cracks after drying



a thin layer delivers the effect



it cracks after drying

Z-FlexFirm

Compare with Benchmark

Test with 5%, 10% and 20% accordingly

- Lighter in color
- Lower pH
- Has a slightly richer skin feel
- Forms a film more quickly
- Tighter feel is more noticeable once dry
- Exhibits a more visible cracked effect upon drying.

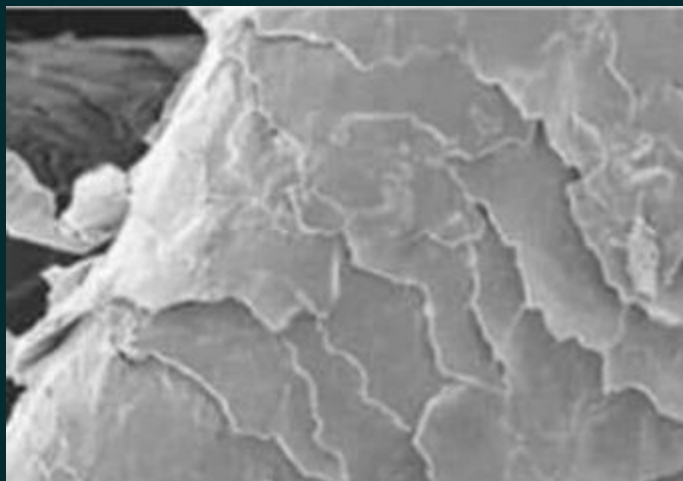


Benchmark

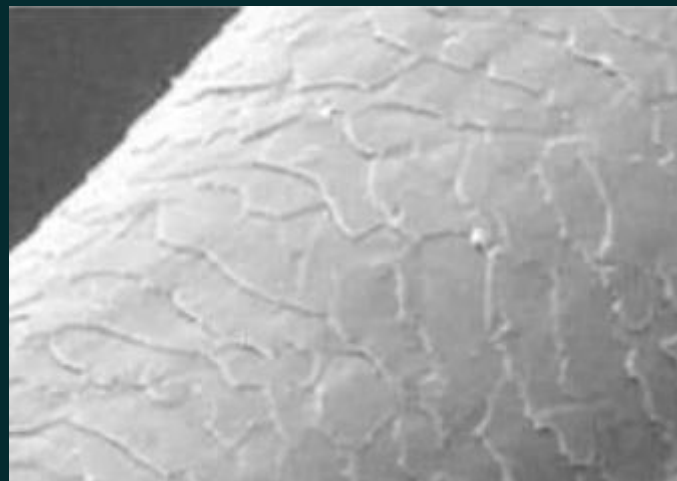
Z-FlexFirm

Z-FlexFirm

Heat Protection Test



Asian virgin black hair under heat drying



Asian virgin black hair under heat drying
after immersing into 5% Z-FlexFirm

- Studies indicate that hair cuticles suffer significant damage when exposed to heat and drying.
- Z-FlexFirm creates a protective polymer film on the hair surface, helping guard cuticles against thermal damage.



Z-FlexFirm Heat Protection Test

The contact angle serves as further evidence: a higher contact angle means less hair damage.

Z-FlexFirm-treated hair exhibits a greater contact angle than hair subjected to heat, proving its protective benefits.

