

Elevance Smooth CS-110 is a fully renewable, plant-based multi-functional polymer that provides oil-phase thickening and film-former functionality.

Features

- Low melt point, non-crystalline polymer
- Naturally derived
- Compatibility with many polar and non-polar cosmetic raw materials
- Compatible and miscible with multiple natural oils

Benefits

- Easy to use in wide range of formulations
- Semi-occlusive film former
- Structures in aqueous and non-aqueous formulations
- Builds viscosity in water-based formulations
- Modifies texture in a wide number of formulations
- Provides smooth, dry feel to oil-rich formulations with no greasy residue

Applications

- Skin Care
- Hair Care
- Color Cosmetics

Why Choose Elevance Smooth CS-110?

- 100% bio-based, made from plant oils
- Multi-functional polymer that can be used for oil-phase structuring and film-formation
- Provides superior film formation, with excellent adhesion, flexibility and occlusivity
- Enables formulators to use a single ingredient across their personal care product portfolio, simplifying the brand owner's raw material inventory management systems
- USDA BioPreferred Listed

INCI Name

Hydrogenated Soy Polyglycerides (and) C15-23 Alkane

Possible Uses

Skin care: body creams, body butters, body lotions, facial creams with SPF, lip balm, deodorant

Hair care: hair care products, pomade, conditioners

Cosmetics: lipsticks, eye brow pencils, eye line pencils, color cosmetics, mascara

Technical Chemical/Physical Properties

Analysis	Units of Measure	Specification		Method
		Minimum	Maximum	
Appearance: Off-white to beige free flowing pastilles. May have clumps, but clumps should be easily broken apart by application of light pressure.	None	Meets specification	None	
Melt Point	°F	118	140	ASTM D127
Total Heavy Metals: (As, Bi, Cd, Ce, Co, Cr, Cu, Hg, Ni, Pb, Ru, Sb, Sr, Zn)	ppm	None	<20	Elevance (ICP)

Oil Thickening Effect with Increasing Elevance Smooth CS-110 in Sunflower Oil



Handling Precautions

Product safety information required for this product is not included herein. Before handling, read material safety data sheet and container label for safe use, physical and health hazard information. The material safety data sheet is available from your local Elevance Renewable Sciences representative or may be available on the Elevance Renewable Sciences website at elevance.com.

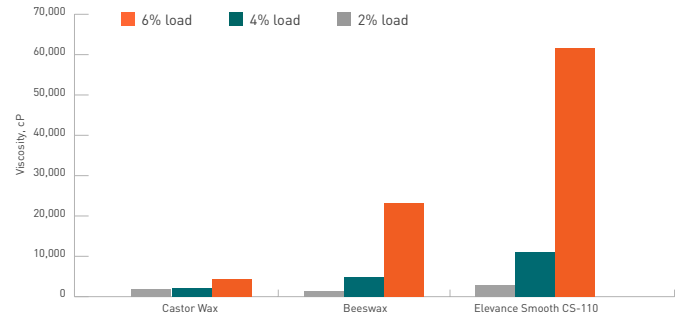
Bio-Engineered Status

Elevance Smooth CS-110 is manufactured from natural oils. There are no genetically modified markers present in the natural oils comprising or used to manufacture this product.

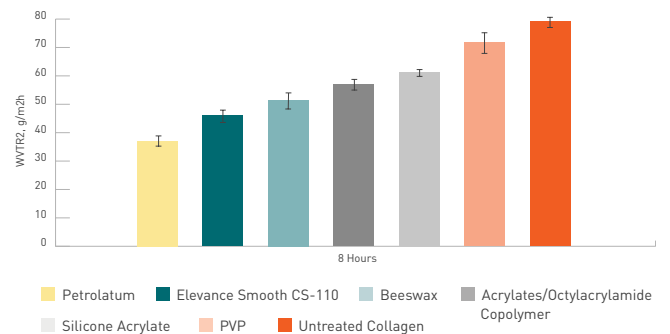
Compatibility of Elevance Smooth CS-110 with Commonly Used Materials

Cosmetic Ingredient	CS-110 Miscibility	Result
Mineral Oil	Yes	Smooth, slightly translucent soft paste
Isododecane	Yes	Smooth, slightly translucent soft paste
Tricaprylin	Yes	Stiff white paste
Caprylic/Capric Triglyceride	Yes	Stiff white paste
Tridecyl Neopentanoate	Yes	Smooth, white soft paste
C12-15 Alkyl Benzoate	Yes	Smooth, translucent soft paste
Ethylhexyl Palmitate	Yes	Smooth, white soft paste
PPG-10 Cetyl Ether	Yes	Stiff white paste
Caprylyl Methicone	Partial	Smooth, white soft paste
Pheny Trimethicone	Partial	Stiff white paste
Cyclopentasiloxane	No	Loose, slushy mixture with free liquid
Bis-Hydroxyethoxypropyl Dimethicone	No	Non-uniform mixture with undispersed wax

Viscosity Building Benefit of Elevance Smooth CS-110 in Cream Formulation



Payne Cup Occlusivity Test (8 Hour Results)



PACKAGING & HANDLING

Shelf Life & Storage Information

When stored at or below 40°C (104°F) in the original unopened containers, this product has a usable life of 9 years from the date of production.

Lot Code Format

Each piece/unit will have a code date, time of pack, and the item code legibly printed on each piece/unit. Normal Elevance code: Year (2 numbers), Month (2 numbers), Day (2 numbers), Shift or lot part (1 letter).

Shipping & Storage Conditions

Store at 18–29°C (65–85°F). Protect from extreme heat and cold (Temperatures over 32°C (90°F) and under 4°C (40°F)).

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