

## SFE839

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### INCI NAME

Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer

### Product Description

SFE839™ elastomer dispersion consists of 5.5% silicone elastomer dispersed in cyclopentasiloxane. The resulting product is a smooth, highly viscous clear gel which has unique sensory characteristics and the ability to act as a thickening agent. The elastomer dispersion may be suitable for a wide variety of personal care applications.

### Key Features and Typical Benefits

- Excellent Aesthetics Creating a Smooth, Silky, Luxurious Feel
- Non-greasy
- Detackifier
- Hydrophobic
- Efficient Thickener
- Elastic Modulus Stability with Temperature

### Typical Properties

Property	Value
Silicone Solids, %	5.25-6.00
Worked Viscosity* @ 25 °C (77°F), cPs.	15,000-30,000
Specific Gravity, @ 25 °C (77°F)	.95
Density, lb./gal, avg.	7.98
Appearance	Clear, Colorless Gel
Flash Point Closed Cup, °C (°F)	82 (190)
Freezing Point, °C (°F)	-44.0 (-47.2)

### WORKED VISCOSITY

\*The Worked Viscosity reported is measured immediately after production and is a measure of consistency. Because the viscosity increases over time, it cannot be duplicated and when received the viscosity may be ~150,000 - 250,000 cps. Similar test results can be obtained utilizing a 'worked viscosity' laboratory procedure (see procedure below for more details).

## Solubility data

Key:

I = Insoluble at &lt; 1% by weight

S = Soluble at 10% by weight or higher (looks clear and homogeneous)

D = Dispersable throughout material

SOLVENT TYPE	MATERIAL	SFE839
Highly Polar	Water	I
Hydrocarbon Solvents	Aliphatic	S
	Aromatic	D
Hydrocarbons & Vegetable Oils	Mineral Oil 65/75 SUS	I
	Mineral Oil 200/210 SUS	I
	Petrolatum	D
	Cottonseed (Gossypium) Oil	D
	Castor (Ricinus Communis) Oil	D
	Sunflower (Helianthus Annuus) Seed Oil	D
	Soybean (Glycine Soja) Oil	D
	Wheat Germ (Triticum Vulgare) Oil	D

Alcohols & Glycols	Cetyl Alcohol	I
	Ethanol	D
	SD Alcohol 40	D
	Isopropyl Alcohol	D
	2-Ethyl-Hexanol	D
	Lauryl Alcohol	D
	Stearyl Alcohol	I
	Butylene Glycol	I
	Propylene Glycol	I
	Glycerin	I
Esters	Isopropyl Palmitate	D
	Isopropyl Myristate	D
	C12-15 Alkyl Benzoate	D
	Octyldodecyl Neopentanoate	D
	PPG-2 Myristyl Ether Propionate	D
Silicones	Dimethicone (SF96-350)	S
	Cyclopentasiloxane (SF1202)	S
	Dimethicone Copolyol (SF1188A)	D
	Cyclomethicone (and) Dimethicone Copolyol (SF1328)	D
	Dimethicone Copolyol (SF1288)	D
	Diisostearoyl Trimethylolpropane Siloxy Silicate (SF1318)	D
	Phenyl Trimethicone (SF1550)	D

Waxes	Ozokerite	I
	Candelilla (Euphorbia Cerifera) Wax	I
	Beeswax	I
	Carnauba (Copernicia Cerifera) Wax	I
Sunscreens	Octyl Methoxycinnamate	D
	Octyl Salicylate	I
Lanolin	Lanolin	D
Other	Tocopheryl Acetate	D

### Potential Applications

- Lotions
- Creams
- Sunscreens
- Color Cosmetics

- Clear Products

General Instructions for Use

SFE 839 is added to the Oil or Silicone phase. SFE 839 can withstand high shear devices during mixing. SFE 839 can be cold processed. Suggested Use Levels: 5-30%

**Limitations**

Standard copy to come

**Product Safety, Handling and Storage**

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

**Contact Information**

For product prices, availability, or order placement, contact our customer service at [Momentive.com/CustomerService/](http://Momentive.com/CustomerService/)

For literature and technical assistance, visit our website at: [www.momentive.com](http://www.momentive.com)

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