Ellamera™

ELEVATING BEAUTY THROUGH INNOVATION™

TER-SET™ 603 Product Data Sheet

Ellamera TER-SET 603 is a polymeric gellant that is soluble in low polarity liquid carriers and oils, such as isododecane and squalane. The product enables clear, soft, solid, water-repellent gels with a high degree of flexibility and cushioning properties. It also enhances cohesive strength and oil retention properties.

Ellamera TER-SET 603 is compatible with hydrocarbon and rosin ester resins, providing excellent temperature stability; enhanced strength and film forming properties; and reduced residues. This makes TER-SET 603 suitable for various depilatory wax types.

Depending on the desired effect, adding 2-8 percent to the oil or resin is recommended.

Ellamera TER-SET 603 is manufactured in North America and supplied as an undusted white powder.

INCI Designation:
hydrogenated styrene/ butadiene copolymer

FEATURES & BENEFITS

- Texture and Touch
  - Customizable texture
  - Flexibility
  - Strength
  - Water resistant
- Color
  - Customizable color effects
  - High transparency for truer, deeper and bolder colors
  - High gloss
  - Excellent suspension properties

POTENTIAL APPLICATIONS

- Color Cosmetics
  - Lipstick
  - Mascara
  - Eye Shadow / Blush
  - Foundation / Concealer
  - Nail Polish
- Skincare
  - Mask
  - Depilatory Wax

PROCESSING RECOMMENDATIONS

A method is to pre-heat the oil to the desired mixing temperature. If this temperature cannot be attained with the available equipment, consider adding a fatty acid such as 10-20% of Caprylic Capric Triglyceride to the base oil, enabling processing at lower temperatures. While stirring, gradually add the Ellamera product to the oil. Both high shear and low shear mixing devices can be used. High shear mixing devices help disaggregate the polymeric modifier into smaller particles which eases dissolution.

The Ellamera product is dissolved once the viscosity of the solution does not increase anymore. Upon cooling the gel is formed and further formulation is possible.

Applying a vacuum during processing can help prevent encapsulation of air.

Property	Value*
Specific Gravity	0.91
Styrene/Rubber ratio	30/70
Color, Yellowness Index	-2.0 to 2.0
Dissolution Temperature (°C)	70-100**

*These are typical values and should not be used to set specifications.
**Depends on the oil composition

Addition of Ellamera polymer to warm oil

Mixing under high or low shear

Gel formation upon cooling down

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