

TECHNICAL SPECIFICATION

HAND PROCESS

SHELLAC LEMON ONE HAND MADE

- | | |
|---|---|
| 1. Matter Insoluble in Hot Alcohol | : Basic Limit 1.0% Max 1.5% |
| 2. Color Index | : 12 Max |
| 3. Rosin and Orpiment | : NIL |
| 4. Wax Content | : 5.5% Max |
| 5. Moisture | : 2% Max |
| 6. Ash | : 0.5% Max |
| 7. Matter Soluble in Water | : 0.5% Max |
| 8. Acid Value/Lead Content/Iodine value | : As agreed between buyer & seller |
| 9. Heat Polymerization | : As agreed between buyer & seller
Usually at temp of 150 degree Cel |

SHELLAC LEMON TWO HAND MADE

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|---|---|
| 1. Matter Insoluble in Hot Alcohol | : Basic Limit 1.25% Max 2.0% |
| 2. Color Index | : 15 Max |
| 3. Rosin and Orpiment | : NIL |
| 4. Wax Content | : 5.5% Max |
| 5. Moisture | : 2% Max |
| 6. Ash | : 0.8% Max |
| 7. Matter Soluble in Water | : 0.5% Max |
| 8. Acid Value/Lead Content/Iodine value | : As agreed between buyer & seller |
| 9. Heat Polymerization | : As agreed between buyer & seller
Usually at temp of 150 degree Cel |



MACHINE PROCESS

SHELLAC LEMON ONE MACHINE MADE & TN MACHINE MADE(GOLDEN COLOR)

Matter Insoluble in Hot Alcohol	: Basic Limit 0.75%, Max 1.00%
Color Index	: 12 Max
Rosin and Orpiment	: NIL
Wax Content	: 4.5% Max
Moisture	: 2% Max
Ash	: 0.3% Max
Matter Soluble in Water	: 0.5% Max
Acid Value/Lead Content/Iodine value	: As agreed between buyer & seller
Heat Polymerization	: As agreed between buyer & seller Usually at temp of 150 degree Celsius

SHELLAC STANDARD ONE MACHINE MADE

Matter Insoluble in Hot Alcohol	: Basic Limit 1.25%, Max 1.50%
Color Index	: 18Max
Rosin and Orpiment	: Normally free from Rosin and Orpiment Except when specified % is agreed Between buyer & seller
Wax Content	: 4.5% Max
Moisture	: 2% Max
Ash	: 0.3% Max
Matter Soluble in Water	: 0.5% Max
Acid Value/Lead Content/Iodine value	: As agreed between buyer & seller
Heat Polymerization	: As agreed between buyer & seller Usually at temp of 150 degree Celsius

SHELLAC ORANGE MACHINE MADE

Matter Insoluble in Hot Alcohol	: Basic Limit 1.0%, Max 1.50%
Color Index	: N.A.
Rosin and Orpiment	: Normally free from Rosin and Orpiment
Wax Content	: 4.5% Max
Moisture	: 2% Max
Ash	: 0.3% Max
Matter Soluble in Water	: 0.5% Max
Acid Value/Lead Content/Iodine value	: As agreed between buyer & seller
Heat Polymerization	: As agreed between buyer & seller Usually at temp of 150 degree Celsius

Uses

SOLVENT PROCESS

SHELLAC DEWAXED DECOLOURIZED

Natural Resin is the resinous secretion of the tiny insect Kerria Lacca which in the refined form is known as Shellac. The Quality and specification of Shellac depends on the raw material as well as the process used for refining. Dewaxed Decolorized Shellac is produced from carefully selected Raw Materials by Solvent Process using activated Carbon.

Physical Data

Food Grade

Grade	: Dewaxed Lemon
Color Gardner in 20% Ethanol	: 15 Max
Acid Value	: 65-80 (DAB9)
Arsenic	: Max.PPM 1.5 (DAB9)
Ash	: Max.% 0.2 (DAB9)
Insolubility in Hot Alcohol	: Max.% 0.2
Melting Range	: C 65-85 (DAB9)
Moisture	: Max% 2.0
Saponification No	: 190-230 (DAB9)
Wax	: Max.% 0.2 (USPXXIII)

Grade	: Dewaxed Orange
Color Gardner in 20% Ethanol	: 16 Max
Acid Value	: 65-80 (DAB9)
Arsenic	: Max.PPM 1.5 (DAB9)
Ash	: Max.% 0.2 (DAB9)
Insolubility in Hot Alcohol	: Max.% 0.2
Melting Range	: C 65-85 (DAB9)
Moisture	: Max% 2.0
Saponification No	: 190-230 (DAB9)
Wax	: Max.% 0.2 (USPXXIII)

Grade	: Dewaxed Blonde
Color Gardner in 20% Ethanol	: 13 Max
Acid Value	: 65-80 (DAB9)
Arsenic	: Max.PPM 1.5 (DAB9)
Ash	: Max.% 0.2 (DAB9)
Insolubility in Hot Alcohol	: Max.% 0.2
Melting Range	: C 65-85 (DAB9)
Moisture	: Max% 2.0
Saponification No	: 190-230 (DAB9)
Wax	: Max.% 0.2 (USPXXIII)

Grade : **Dewaxed Super Blonde**
Color Gardner in 20% Ethanol : 11 Max
Acid Value : 65-80 (DAB9)
Arsenic : Max.PPM 1.5 (DAB9)
Ash : Max.% 0.2 (DAB9)
Insolubility in Hot Alcohol : Max.% 0.2
Melting Range : C 65-85 (DAB9)
Moisture : Max% 2.0
Saponification No : 190-230 (DAB9)
Wax : Max.% 0.2 (USPXXIII)

Grade : **Dewaxed Platina**
Color Gardner in 20% Etanol : 6
Acid Value : 65-80 (DAB9)
Arsenic : Max.PPM 1.5 (DAB9)
Ash : Max.% 0.2 (DAB9)
Insolubility in Hot Alcohol : Max.% 0.1
Melting Range : C 65-85 (DAB9)
Moisture : Max% 2.0
Saponification No : 190-230 (DAB9)
Wax : Max.% 0.2 (USPXXIII)

Grade : **Dewaxed Bleached Shellac**
Color Gardner in 20% Ethanol : 7
Acid Value : 75-95
Arsenic : Max.PPM 1.5 (DAB9)
Ash : Max.% 0.2 (DAB9)
Insolubility in Hot Alcohol : Max.% 0.2
Melting Range : C 65-85 (DAB9)
Moisture : Max% 2.0
Saponification No : 190-230 (DAB9)
Wax : Max.% 0.2 (USPXXIII)

PROPERTIES:

- *Can be dissolved in water by adding alkali like Ammonia, Amp, Tea etc
- *Non Toxic and Physiologically harmless
- *Good Solution in ethanol and lower alcohols
- *Compatible with many other resins, raw materials and additives used in cosmetics, Pharmaceuticals and Food formations.
- *Good Film forming properties, a high gloss and excellent adhesion to various substrates including the Human Hair.

APPLICATIONS

Cosmetics

Hair shampoos, Hair Setting lotions, Hair Sprays
Mascara, Eyeliners, Nail Polishes, Lipsticks
Microencapsulation by coacervation of Fragrances and Perfume Oils

Food

Coating of Confections, Chewing gum, Candies, Cakes eggs
Coating of Citrus Fruits and Apples
Printing inks for Eggs and Cheese

Pharmaceuticals

Shellac is recommended as it conforms to the Specification of USP XXIII and DAB9