

Technical Data Sheet

Foral™ 105-E CG Hydrogenated Rosinate

Chemical Synonym

Pentaerythrityl Hydrogenated Rosinate

Applications

- Adhesives/sealants-b&c
- Bookbinding
- Caps & lids non-food contact
- Carpet construction
- Case & carton sealing closings
- Commerical printing inks
- Cosmetic ingredients - lips
- Film modification
- Labels non food contact
- Packaging component films
- Packaging components non food contact
- Packaging tape
- Paints & coatings
- Polymer modification
- Protective coatings
- Road markings
- Roofing ingredients
- Solder flux
- Specialty tape
- Tape non food contact
- Tires
- Wax ingredients
- Wire/cable

Key Attributes

- Derived from a natural, renewable source
- Excellent oxidative and color stability
- High softening point
- Low odor
- Soluble in non-polar liquids
- Wide compatibility range

Product Description

Foral™ 105-E CG Hydrogenated Rosinate is a cosmetic grade resin derived from the esterification of a highly stabilized gum rosin and pentaerythritol. This thermoplastic resin has excellent resistance to oxidation and discoloration caused by heat and aging. Foral™ 105-E CG, with its high softening point, is the resin of choice when a harder resin is desired.

Typical Properties

Property	Test Method	Typical Value, Units
General		
Ring and Ball Softening Point	ASTM E 28	101 °C
Color, Gardner ^a		6
Color, USRG Rosin Scale		WW
Acid Number (mg KOH/g)		14
Density @ 25°C		1.06 kg/dm ³
Description, Base Resin		Hydrogenated Gum Rosin

^a50% resin solids in toluene or xylene

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

Packaging

Foral™ 105-E CG Hydrogenated Rosinate is pastillated and packed in polyethylene bags of 25 kg net.

Storage

Due to the thermoplastic behavior, pastillated and flaked resins may fuse, block or lump. This can be accelerated under any of the following conditions: 1) above ambient temperature, 2) prolonged storage, 3) pressure, e.g., stacking pallets, or a combination of these conditions. This is particularly applicable for low softening point resin grades.

In order to maintain the flake or pastille shape, we therefore recommend storing the material in a temperature-controlled area, be careful with stacking material or applying pressure and preventing prolonged storage.

It should be noted that lumping does not have a negative impact on the product specifications. Due to the nature of the product, claims regarding lumping cannot be accepted.

Resins are prone to gradual oxidation, some more so than others. This could result in darkening and/or it could have an adverse effect on the solubility of the resin in organic solvents or on its compatibility with polymers. Accordingly, it is recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first.

Foral™ 105-E CG Hydrogenated Rosinate material will remain within product specification limits for a period of at least twelve months after shipment from Eastman's production facilities in the Netherlands, provided recommended storage conditions are observed. However, as we can neither anticipate the conditions under which the resin is processed nor the end-use applications for which it is used, we recommend that the material be tested upon receipt.

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