



# Product Data Sheet

## Foral<sup>®</sup> 85

Glycerol Ester of Hydrogenated Wood Rosin

Number 4264

### Product Description and Use

**Foral<sup>®</sup> 85** resin is the glycerol ester of hydrogenated wood rosin. It is an exceptionally pale thermoplastic resin that has outstanding resistance to oxidation and to discoloration caused by heat and aging. Foral 85 resin can be used as a tackifier resin in various types of adhesives, and in protective and barrier type coatings that require an exceptional degree of color retention and oxidation resistance. It is particularly effective in tackifying acrylic PSA formulations.

### Applications

- Tackifier resin for pressure sensitive adhesives used for tapes, labels, medical appliances, and specialty applications
- Tackifier resin in lamination of metal foil, paper, cloth, cellophane, and cellulose acetate films
- Imparts hot tack and heat sealability in hot melt adhesives and improves adhesion to substrates
- Improves hot tack and bond strength in hot melt coatings
- Improves surface gloss and clarity in packaging appearance
- Increases gloss, transparency, and adhesion as a modifier in paraffin wax

### Benefits

- Resistant to oxidation
- Pale color
- Excellent color retention
- Inherent tackiness
- Wide solubility and compatibility
- Low odor

### General Sales Specifications

Softening Point, Pinova drop method, °C.....	80-88
Color, USDA rosin scale, maximum.....	X
Acid Number, mg KOH/g.....	3-10

### Typical Properties

Color, USDA rosin scale.....	XA
Color, Gardner, 50% solids in toluene .....	3
Density at 25°C, lbs/gal (kg/l) .....	8.9 (1.07)

## Packaging

<u>Package</u>	<u>Form</u>	<u>Net Weight</u>
Bag, multi-wall, kraft	Pastilles	50 lb, 22.68 kg
Drum, fiber	Solid	400 lb, 181.44 kg
Bulk, tank truck	Molten	Varies

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## Regulatory/Classifications

CAS No. 65997-13-9 US DOT: Not regulated

International Nomenclature Cosmetic Ingredient (INCI): *Glycerol Hydrogenated Rosinate*

US	21 CFR 175.105	21 CFR 177.1200
FDA:		
	21 CFR 175.125(b)	21 CFR 177.1210
	21 CFR 175.300	21 CFR 177.1400
	21 CFR 175.320	21 CFR 177.2600
	21 CFR 175.380	21 CFR 178.3120
	21 CFR 175.390	21 CFR 178.3800
	21 CFR 176.180	21 CFR 178.3850
	21 CFR 176.200	21 CFR 178.3870
	21 CFR 176.210	

Other regulatory information available on request.

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## Storage and Inventory Control

Pastillated or flaked resins may fuse, block, or lump during hot weather months, if stored near sources of heat, if double or triple stacked, or if stored for prolonged periods of time. These forms of resin are prone to gradual oxidation, some more so than others. This could result in darkening and/or could have an adverse effect on solubility in organic solvents. Care should be given to minimize opportunities for product oxidation throughout processing. Accordingly, it is strongly recommended that proper storage conditions and strict control of inventory be observed at all times, taking care that the oldest material is used first.

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## Product Safety

Read and understand the Material Safety Data Sheet before using this product.

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