

Product Data Sheet

Pentalyn[®] H

Resin

Number 4288

Product Description and Use

Pentalyn[®] H resin, a hard, pale amber, thermoplastic resin designed primarily as a tackifying resin for various types of polymer and elastomer based adhesives. It is a pentaerythritol ester of wood rosin that has been stabilized by hydrogenation. In finished products, it contributes improved resistance to oxidation, greater heat stability, better retention of color, and greater retention of tack imparting properties than ordinary rosin esters.

Applications

- Tackifier in pressure-sensitive adhesives needing heat, light, oxidation, and moisture resistance
- Readily formulated into solvent and hot-melt type adhesives
- Tackifier for natural rubber, neoprene and SBR latex based adhesives

Benefits

- Tacky
- Persistently adhesive
- Resistant to oxidation
- Resists aging
- High Bonding strength
- Dispersible in aqueous media

General Sales Specifications

Softening Point, Ring & Ball, °C	94-102
Color, USDA rosin scale, max	M
Acid Number	7-16

Typical Properties

60% solids solution in mineral spirits	
- Viscosity at 25°C, Gardner Holdt	D
Density at 25°C, lb/gal (kg/l).....	8.9 (1.07)

Packaging

<u>Package</u>	<u>Form</u>	<u>Net Weight</u>
Bag, multi-wall, kraft	Pastilles	50 lbs, 22.68 kgs
Drum, lightweight, metal	Solid	500 lbs, 226.8 kgs
Bulk, tank truck	Molten	Varies

Regulatory/Classifications

CAS No. 64365-17-9 US DOT: Not regulated

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

US FDA:	21 CFR 175.105	21 CFR 176.210
	21 CFR 175.125(b)	21 CFR 177.1200
	21 CFR 175.300	21 CFR 177.1210
	21 CFR 175.320	21 CFR 177.1400
	21 CFR 175.380	21 CFR 177.2600
	21 CFR 175.390	21 CFR 178.3120
	21 CFR 176.170	21 CFR 178.3800
	21 CFR 176.180	21 CFR 178.3850
	21 CFR 176.200	21 CFR 178.3870

Other regulatory information available on request.

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.

Product Safety

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

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