

FloraRez® 100H

Pentaerythritol Ester of Hydrogenated Rosin

Description

FloraRez 100H is a pentaerythritol ester of gum rosin that has been stabilized by hydrogenation. It is a hard, very light pale colored thermoplastic resin that has excellent thermal and oxidative stability characteristics over other standard PE rosin esters. It finds use in applications requiring an extremely demanding non-oxidizing and color stable resin.

Applications

- Adhesives: pressure sensitive, hot melt, solvent, and emulsion
- Sealants and caulks
- Wax modification
- Rubber compounding and plastics modification
- Thermal and aging-stable tackifiers

Properties	Sales Specifications
Color, Gardner	2 - 6
Acid Value, mg KOH/g, maximum	7.0 - 16.0
Softening Point Hercules R25-3 Drop °C	102 - 110

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FloraRez® 100H

Packaging

Bag, multiwall kraft paper

Form

Pastilles

Storage and Handling

Store inside or under roof in original packaging. Keep dry. Avoid freezing and excessive heat. We request our customers to test our products before using them on industrial scale. 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 25°C 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. The user of our products bears the responsibility of determining their suitability for a particular application or formulation or determining that the products or their use do not infringe any intellectual property. We do not assume any responsibility or warranty, expressed or implied, resulting from handling, usage and storage whether performed according to the instructions contained in this document, whether used alone or in combination with other products. The buyer assumes all responsibility and liability for loss or damage arising from the handling and use of our products, either alone or in combination with other products.

Features and Benefits

- Natural, renewable
- Resistant to oxidation
- Pale color
- Emulsifiable
- Low odor
- Hydrogenated
- Wide compatibility
- Hard, free flowing

Compatible with

Natural and synthetic rubber; ethylcellulose; chlorinated rubber; SIS and SBS block copolymers; EVA; neoprene latex; acrylic resins; waxes; plasticizers

Soluble in

Esters; ketones; higher alcohols; glycol ethers; and aliphatic, aromatic, and chlorinated hydrocarbons. Insoluble in ethanol and water.

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Regulatory/Classifications	
CAS Number	64365-17-9
DOT Shipping Classification	Not Regulated
Harmonized Tariff Code	380690
INCI (International Nomenclature of Cosmetic Ingredients)	Pentaerythritol Hydrogenated Rosinate
US FDA	21 CFR 175.105 21 CFR 175.125 21 CFR 175.300 21 CFR 175.320 21 CFR 175.390 21 CFR 176.200 21 CFR 176.210 21 CFR 177.1210 21 CFR 177.2600

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