

67266 Regalite® R1125 Hydrocarbon Resin

Regalite® R1125 hydrocarbon resin is a low molecular weight fully hydrogenated water-white inert thermoplastic resin derived from petrochemical feedstocks. The resin is especially designed as tackifier in hotmelt adhesives based on EVA copolymers and SIS block copolymers requiring excellent color retention upon aging.

Regalite® R1125 is stabilized with tetrakis [methylene (3,5-di-tert-butyl-4-hydroxyhydrocinnamate)] methane antioxidant.

Product Specifications

Softening point, ASTM E 28	121-127°C
Color, Hunterlab b, 50% resin solids in toluene, 5 cm path length	min -1 / max +5

Typical Properties

Softening point, Ring & Ball	123°C
Color, Hunterlab b, 50% resin solids in toluene, 5 cm path length	1.0
Color, Gardner, 50% resin solids in toluene, Initial	< 1
24 hours at 177°C	1
Density at 25°C (kg/l)	0.98
MMAP	86°C

Molecular weight, Size Exclusion Chromatography

Mz	2100
Mw	1300
Mn	800
Mw/Mn	1.6

Melt viscosity

140°C	> 50000 mPa.s
160°C	6800 mPa.s
180°C	1200 mPa.s

Compatibility and Solubility

Extremely light color, good low temperature flexibility, excellent adhesion, very good resistance to thermal and oxidative degradation, excellent compatibility.

Soluble at all useful proportions in aliphatic, aromatic, and chlorinated hydrocarbons. Insoluble in alcohols and water. Compatible at all ratios, or in limited but practically useful proportions, with natural and synthetic rubbers, EVA resins (ethylene-vinyl acetate copolymers), APAO (amorphous poly-alphaolefins), SIS (styrene-isoprene-styrene) block copolymers.

Suggested Uses

Because of its compatibility characteristics, its water-white color and good stability Regalite® R1125 is indicated for use in light colored EVA-based and SIS-based hotmail adhesives and coatings. Regalite® R1125 is also suggested as an additive to polyolefin plastics where it enhances gloss and stiffness and improves flow behavior.



Regulatory Status

Regalite[®] R1125 is in compliance with the requirements of the U.S. Food and Drug Administration for use in food packaging and food processing operations as specified in the Code of Federal Regulations, Title 21, under the following sections and subject to the provisions herein:

175.105	Adhesives
175.125	Pressure sensitive adhesives
176.170	Components of paper and paperboard in contact with aqueous and fatty foods
176.180	Components of paper and paperboard in contact with dry food
177.1520	Olefin polymers
177.2600	Rubber articles intended for repeated use.

Regalite[®] R1125 is in compliance with the requirements of the Bundesinstitut für Risikobewertung (BfR) of the Federal Republic of Germany for use in food packaging and food processing operations as specified in the BfR Recommendations, under the following chapters and subject to the provisions therein:

Chapter XXV	Paraffin and microcrystalline waxes and blends of these with waxes, resins and polymers
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Regalite[®] R1125 is in compliance with the requirements of the European Toy Safety Legislation 88/378/EEC, European Standard CEN EN 71, Part 3: migration of certain elements.

All components used for the production of Regalite[®] R1125 are listed in the European Inventory of Existing Commercial Chemical Substances (EINECS).

Storage

Flaked and pastilled forms of resins may fuse, block or lump under any of the following conditions: (1) in hot weather climates, (2) if stored near steam pipes or other sources of heat and (3) upon prolonged storage.

Inside storage is recommended. Storage at temperatures above 30°C should be avoided.

Resins are prone to gradual oxidation, some more 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 strongly recommended that strict control of inventory be observed at all time, taking care that the oldest material is used first.

Regalite[®] R1125 will remain within product specifications limits for a period of at least twelve months after shipment, provided storage conditions outlined in this data sheet 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.