

Technical Data Sheet

Regalite™ S7125 Hydrocarbon Resin

Applications

- Adhesives/sealants-b&c
- Bookbinding
- Carpet construction
- Case & carton sealing closings
- Casting wax
- Commercial printing inks
- Hygiene adhesives
- Labels non food contact
- Polymer modification
- Protective coatings
- Specialty tape
- Tape non food contact
- Tires

Product Description

Regalite™ S7125 Hydrocarbon Resin is a partially hydrogenated water-white inert thermoplastic resin derived from petrochemical feedstocks. This resin is especially designed as a tackifier in hot melt adhesives based on EVA, SIS and SBS copolymers, providing low odor and good color retention upon ageing.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Ring and Ball Softening Point	ASTM E 28	123 °C
Color, Gardner ^d	ASTM D 6166	<1
Density @ 25°C		1.03 kg/dm ³
Cloud Point ^f MMAp		77 °C
Molecular Weight ^e		
M _n		800
M _w		1300
M _w /M _n		1.6
M _z		2200
Melt Viscosity @ 160°C		8000 cP

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^bUnless noted otherwise, the test method is ASTM.

^cUnits are in SI or US customary units.

^d50% in toluene.

^eMolecular weight, z-average from gel permeation chromatography, elution with THF.

^fCloud point temperature from 2:1 Vol:Vol aniline-methylcyclohexane, Eastman method

Compatibility and Solubility

Regalite S7125 Hydrocarbon Resin is a partially hydrogenated, water-white resin with a unique balance of aliphatic-aromatic properties. This characteristic provides the resin with excellent tackification properties in SIS (styrene-isoprene-styrene) and SBS (styrene-butadiene-styrene) block copolymers whilst retaining high cohesive strength in the hot melt adhesive, due to the resin's limited affinity for the styrene end-block in the block copolymer. Regalite S7125 Hydrocarbon Resin has a very good resistance to thermal and oxidative degradation. Compared to fully hydrogenated resins such as Regalite R1125 Hydrocarbon Resin, Regalite S7125 Hydrocarbon Resin offers a substantial decrease in hot melt viscosity, combined with improved cohesive strength at ambient temperatures.

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 SBS (styrene-butadiene-styrene) block copolymers, SIS (styrene-isoprene-styrene) block copolymers, EVA (ethylene-vinyl acetate) and EBA (ethylene-butyl acrylate) copolymers.

Packaging

Regalite S7125 Hydrocarbon Resin is pastillated and packed in polyethylene bags of 25 kg net, and supplied on shrink-wrapped pallets of 40 bags (1000 kg) each, from Eastman's facilities in the Netherlands and from warehouses located in Europe.

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.

Regalite S7125 Hydrocarbon Resin material will remain within product specification limits, as mentioned under the heading "Product Specifications" (overleaf), for a period of at least twelve months after shipment from Eastman's production facilities in the Netherlands, 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.

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