EASTMAN

Technical Data Sheet

Regalite™ R1010 Hydrocarbon Resin

Applications

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

Product Description

Regalite™ R1010 Hydrocarbon Resin is a liquid hydrogenated, water-white, low molecular weight resin derived from petrochemical feedstocks. This resin is especially designed as a component of a multipart tackifier system in hot melt and solvent based pressure sensitive adhesives based on SIS and SBS thermoplastic block copolymers, providing superior tack, adhesion and cohesive strength characteristics.

Typical Properties

Property[a]	Test Method[b]	Typical Value, Units[c]
General		
Ring and Ball Softening Point	ASTM E 28	Liquid @ 25°C
Color, Gardner[d]	ASTM D 6166	<1
Cloud Point[e]		
MMAP		82 °C
Melt Viscosity		
@ 35°C	ISO 2555	12000 cP
@ 50°C	ISO 2555	2300 cP
@ 70°C	ISO 2555	450 cP

[a] *Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.*
[b] *Unless noted otherwise, the test method is ASTM.*
[c] *Units are in SI or US customary units.*
[d] *50% in toluene.*
[e] *Cloud point temperature from 2:1 Vol:Vol aniline-methylcyclohexane, Eastman method.*

Compatibility and Solubility

Regalite R1010 Hydrocarbon Resin is a hydrogenated, water-white liquid resin of low molecular weight and narrow molecular weight distribution. These characteristics provide the resin with excellent tackification properties in a multi-component resin (tackification) system for SIS (styrene-isoprene-styrene) block copolymers based hot melt adhesives. Due to the resin's low affinity for the styrene end block in the block copolymer Regalite R1010 Hydrocarbon Resin provides superior tack properties with good cohesive strength. In addition it enhances adhesion characteristics of the adhesive. Regalite R1010 Hydrocarbon Resin, having a unique chemical and molecular

structure, also tackifies SBS (styrene-butadiene-styrene) block copolymers and natural rubber in solvent based adhesives. 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) copolymers and natural rubber.

Packaging

Regalite R1010 Hydrocarbon Resin is supplied in open-head steel drums, on pallets containing 4 drums each, from Eastman’s production facilities in The Netherlands and from warehouses located in Europe.

Storage

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™ R1010 Hydrocarbon Resin material will remain within product specification limits, as mentioned under the heading "Product Specifications", for a period of at least twelve months after shipment from Eastman' 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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