

# Technical Data Sheet

## Regalite™ R1100 CG Hydrocarbon Resin

### Chemical Synonym

Hydrogenated Styrene/Methyl Styrene/Indene Copolymer

### Applications

- Adhesives/sealants-b&c
- Bookbinding
- Carpet construction
- Case & carton sealing closings
- Casting wax
- Commerical printing inks
- Cosmetic ingredients - lips
- Cosmetic ingredients - nails
- Hair care ingredients
- Labels non food contact
- Polymer modification
- Protective coatings
- Specialty tape
- Tape non food contact
- Tires

### Key Attributes

- Contributes to adhesion and transfer resistance
- Forms clear, glossy films
- Resistant to thermal and oxidative degradation
- Soluble in non-polar liquids
- Water-white color

### Product Description

Regalite™ R1100 CG Hydrocarbon Resin is a cosmetic grade resin derived from petrochemical feedstocks. This water-white, thermoplastic resin is fully hydrogenated providing excellent stability. It has excellent solubility and compatibility with non-polar ingredients in cosmetic applications, contributing both adhesion and gloss.

### Typical Properties

Property <sup>a</sup>	Test Method <sup>b</sup>	Typical Value, Units <sup>c</sup>
<b>General</b>		
Ring and Ball Softening Point	ASTM D 6493	100 °C
Color <sup>d</sup>		
Hunterlab b, 5 cm path length		0.6
Hunterlab L, 5 cm path length		99
Color, Gardner <sup>d</sup>		
24 hours @ 175°C	ASTM D 6166	3
Initial	ASTM D 6166	<1
Density @ 25°C		0.99 kg/dm <sup>3</sup>
Cloud Point <sup>e</sup>		
MMAp		76 °C
Molecular Weight <sup>f</sup>		
M <sub>n</sub>		600
M <sub>w</sub>		850
M <sub>z</sub>		1250

<sup>a</sup>Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

<sup>b</sup>Unless noted otherwise, the test method is ASTM.

<sup>c</sup>Units are in SI or US customary units.

<sup>d</sup>50% resin solids in toluene

<sup>e</sup>MMAp: Mixed Methylcyclohexane-Aniline Point. Cloud point is measured in a 1:2 mixture of methylcyclohexane and aniline. The higher the MMAp,

the less aromatic the resin.

<sup>f</sup>Molecular weight measured by Gel Permeation Chromatography (GPC) using polystyrene standards.

## Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

## Packaging

Regalite™ R1100 CG Hydrocarbon Resin is pastillated and packed in polyethylene bags of 20 kg net.

## 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™ R1100 CG Hydrocarbon Resin material will remain within product specification limits, as mentioned given 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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