

Regalite™ UltraPure 7100

Hydrocarbon Resin



REGALITE™ UltraPure 7100 hydrocarbon resin is a partially hydrogenated water-white thermoplastic resin with low targeted volatiles after aging, low odor, and low, stable amount of substances of interest as a function of aging temperature. REGALITE UltraPure 7100 has improved color stability compared to the heritage grade with the same aromatic content and softening point. Like REGALITE R7100, the unique balance of aliphatic-aromatic properties of the resin makes it an excellent tackifier in hot melt adhesives based on SBS block copolymers, providing excellent color retention upon aging.

- Excellent heat stability
- Improved resistance to oxidation
- Low odor
- Low organic volatile content
- Low trace chemicals
- Water-white initial color

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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Property	Typical Value	Unit	Method ¹
Ring and Ball Softening Point	102	°C	ASTM E 28
Styrene, as proxy for odor	<0.05	ppm	Measured by HS-GC-MS/SIM after 30 minutes at 190° C
Color, Gardner	<1		ASTM D6166, 50% solids in toluene
Color, Gardner, 24 hours at 175°C	3		
Color, Hunterlab b	1.5		Uncentrifuged, 50% solids in toluene
Density at 25°C	1.03	kg/dm ³	
MMAP Cloud Point	66	°C	from 1:2 mixture of methylcyclohexane and aniline
Molecular Weight, Mn	600	g/mol	GPC, using polystyrene standards, elution with THF
Molecular Weight, Mw	900	g/mol	
Molecular Weight, Mz	1400	g/mol	
Polydispersity (Mw/Mn)	1.5		
Melt Viscosity at 140°C	3100	cP	Brookfield
Melt Viscosity at 160°C	550	cP	
Melt Viscosity at 180°C	120	cP	
Glass Transition Temperature (Tg)	49	°C	DSC, 20°C/minute

¹ internal method based upon the specified norm

Applications

Hygiene Adhesives, Packaging

Compatibility and Solubility

Soluble at all useful proportions in aliphatic, aromatic, and chlorinated hydrocarbons. Insoluble in alcohols and water. Compatible at all

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ratios, or in limited but practically useful proportions, with SBS (styrene-butadiene-styrene) block copolymers, SIS (styrene-isoprene-styrene) block copolymers, SBR (styrene butadiene rubber), and EVA (ethylene-vinyl acetate).

Packaging

REGALITE™ UltraPure 7100 hydrocarbon resin is pastillated, packed in polyethylene bags of 20 kg net, and supplied on shrink-wrapped pallets of 50 bags (1000 kg) each, from Synthomer'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 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 UltraPure 7100 hydrocarbon resin material will remain within product specification limits, as mentioned in the sales specification sheet, for a period of at least twelve months after shipment from Synthomer 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.

Comments

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