

Regalite™ S1100 Hydrocarbon Resin



Regalite™ S1100 hydrocarbon resin is a low molecular weight fully hydrogenated water-white thermoplastic resin derived from petrochemical feedstock. This resin is especially designed as tackifier in hot melt adhesives requiring good color retention upon ageing.

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	97	°C	ASTM E 28
Color, Hunterlab b	0.7		Uncentrifuged, 5 cm path length, 50% solids in toluene
Density at 25°C	0.99	kg/dm ³	
MMAp Cloud Point	80	°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	820	g/mol	
Molecular Weight, Mz	1140	g/mol	
Polydispersity (Mw/Mn)	1.4		
Melt Viscosity at 120°C	25000	cP	Brookfield
Melt Viscosity at 140°C	2500	cP	
Melt Viscosity at 160°C	600	cP	

¹ Internal method based upon the specified norm

Applications

Caulks and Sealants, Roadmarking, Carpet, Additives, Metal coatings, Graphics, Labels, Coatings, Tapes

Compatibility and Solubility

Compatible at all ratios, or in limited but practically useful proportions, with natural and synthetic rubbers, butyl rubber, EVA (ethylene-vinyl acetate) copolymers, EBA (Ethylene-butylacrylate), APAO (amorphous poly-alpha-olefins), SIS (styrene-isoprene-styrene) block copolymers, SBS (styrene-butadiene-styrene) block copolymers, SIBS (styrene-isoprene/butadiene-styrene) block copolymers, SEBS (styrene-ethylene/butylene-styrene) block copolymers, SEPS (styrene-ethylene/propylene-styrene) block copolymers, polyethylene, polypropylene polymers, PIB (polyisobutene), OBC (olefinic block copolymer), mPE (metallocene catalyzed polyethylene), mPP (metallocene catalyzed polypropylene), and TPE (thermoplastic elastomers). Soluble at all useful proportions in aliphatic, aromatic, and chlorinated hydrocarbons. Insoluble in alcohols and water.

Packaging

Regalite™ S1100 hydrocarbon resin is pastillated and packed in polyethylene bags of 20 kg net, and supplied on shrink-wrapped pallets of 50 bags (1000 kg) each, from Synthomer facilities in the Netherlands and from warehouses located in Europe.

Regalite S1100 is supplied in heated, insulated and inerted bulk containers, from Synthomer facilities in the Netherlands.

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.

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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™ S1100 hydrocarbon resin will remain within product sales specification limits 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, the product should be re-analyzed for critical properties at the end of its shelf life to determine if it meets specification for use.

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.