

# REGALITE™ C6100SD

## Hydrocarbon Resin

REGALITE™ C6100SD Hydrocarbon Resin is a very light color, partially hydrogenated, modified aliphatic resin designed as an excellent tackifier for the midblock of thermoplastic block copolymers, including styrene-isoprene-styrene (SIS) with low, medium and high styrene content, styrene-ethylene/butylene-styrene (SEBS) and styrene-butadiene-styrene (SBS). This product also shows excellent compatibility with ethylene vinyl acetate (EVA). REGALITE™ C6100SD is recommended for use in a variety of hot melt adhesives, including non-woven assembly, packaging, bookbinding, glue sticks, and pressure-sensitive tape and label adhesives.

- Excellent stability
- Light color
- Wide compatibility

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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Property	Typical Value	Unit	Method <sup>1</sup>
Ring and Ball Softening Point	100	°C	ASTM E 28
Color, Gardner (2 cm cell)	<1		ASTM D 6166, 50% solids in toluene
Yellowness Index (2 cm cell)	4.5		ASTM E 313, 50% solids in toluene
Yellowness Index, heat aged (2 cm cell)	14.6		5 hr at 177°C, ASTM E 313, 50% solids in toluene
MMA Cloud Point	60	°C	from 1:2 mixture of methylcyclohexane and aniline
DACP Cloud Point	31	°C	from 1:1 mixture of xylene and diacetone alcohol
Molecular Weight Distribution (Mn)	610		GPC, using polystyrene standards, elution with THF
Molecular Weight Distribution (Mw)	1010		
Molecular Weight Distribution (Mz)	1880		
Molecular Weight Distribution (Mw/Mn)	1.7		
Melt Viscosity at 140°C	5000	cP	Brookfield
Melt Viscosity at 160°C	750	cP	
Melt Viscosity at 190°C	130	cP	
Thermogravimetric (TGA) Analysis (% Weight Loss)	9.4	%	
TGA Weight Loss, heat aged	1.3	%	24 hours at 177°C
Density at 25°C	1.02	kg/dm <sup>3</sup>	
Glass Transition Temperature (Tg-midpoint)	50	°C	DSC, 20°C/minute

<sup>1</sup> internal method based upon the specified norm

## Applications

Adhesives for construction, Adhesives, Automotive, General Packaging, Hygiene Adhesives, Labels, Natural Rubber, Non-wovens, Other adhesives, Packaging, Packaging Tapes, Plastic Modification, PSA labels, PSA Tapes, Solvent-borne resins, Tapes

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### Compatibility and Solubility

Soluble at all useful proportions in aliphatic, aromatic, and chlorinated hydrocarbons. Insoluble in alcohols and water. Compatible in practically useful proportions with natural and synthetic rubbers, ethylene-vinyl acetate (EVA) resins and copolymers, amorphous polyolefins, paraffin and microcrystalline waxes; styrene-butadiene rubber (SBR) copolymer, styrene-ethylene/butylene-styrene (SEBS), styrene-isoprene-styrene (SIS) and styrene-butadiene-styrene (SBS) block copolymers.

### Packaging

The standard package for REGALITE™ C series resins is a 25-kilogram (55.1-pound) multiwall paper bag. Samples (1 kilogram) are available for evaluation.

### Storage

Due to the thermoplastic behavior, pastillated and half-ball 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. 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.

When stored in accordance with the SDS, in the original unopened container, stored in an enclosed area, and protected from moisture, extreme temperatures and contamination, this product (in solid form only) is estimated to continue to meet applicable sales specifications for more than 2 years from the date of manufacture. First in first out inventory control is recommended.

### 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.