TECHNICAL DATA SHEET

Regalite™ C6100 Hydrocarbon Resin

Regalite™ C6100 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), [low, medium, and high styrene content] styrene ethylene butylene styrene (SEBS) and styrene-butadiene-styrene (SBS). It also shows excellent compatibility with ethylene vinyl acetate (EVA). Regalite™ C6100 is recommended for use in a variety of hot melt adhesives, including nonwoven assembly, packaging, bookbinding, glue sticks, and pressure-sensitive tape and label adhesives.

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

eMail: Adhesive.Technologies@Synthomer.com

Property	Typical Value	Unit	Method[1]
Ring and Ball Softening Point	100	°C	ASTM E 28
Color, Gardner	<1		ASTM D 6166, 2 cm cell, 50% solids in toluene
Color, Gardner, 24 hours at 177°C	6.3		
Color, Gardner, 5 Hours at 177°C	1.9		
Color, Yellowness Index	4.5		ASTM E 313, 2 cm cell, 50% solids in toluene
Color, Yellowness Index, 24 hours at 177°C	67.4		
Color, Yellowness Index, 5 Hours at 177°C	14.6		
Weight Loss, 24 hours at 177°C	1.3	%	
Weight loss, 2 hours at 190°C	9.4	%	TGA
Density at 25°C	1.02	kg/dm³	
DACP Cloud Point	31	°C	from 1:1 mixture of xylene and 4-methyl-2-pentanone
MMAP Cloud Point	60	°C	from 1:2 mixture of methylcyclohexane and aniline
OMS Cloud Point	<-50	°C	from Odorless Mineral Spirit
Aliphatic Hydrogen	90.5	%	NMR
Aromatic Hydrogen	9.5	%	NMR
Olefinic Hydrogen	0	%	NMR
Molecular Weight, Mn	610	g/mol	GPC, using polystyrene standards, elution with THF
Molecular Weight, Mw	1010	g/mol	
Molecular Weight, Mz	1880	g/mol	
Polydispersity (Mw/Mn)	1.66		
Melt Viscosity at 140°C	5000	cP	Brookfield
Melt Viscosity at 160°C	750	cP	

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Property	Typical Value	Unit	Method[1]
Melt Viscosity at 190°C	130	cP	
Glass Transition Temperature (Tg), End	55.7	°C	DSC
Glass Transition Temperature (Tg), Middle	49.4	°C	
Glass Transition Temperature (Tg), Onset	43.2	°C	

[1] internal method based upon the specified norm

Applications

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

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 MSDS, in it's original unopened container 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.

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