Regaltac™ H-130L Resin

Regaltac™ H-130L is a hydrogenated hydrocarbon resin, having a softening point of 130°C and a molten Gardner color of 2. Regaltac H-130L has excellent compatibility with APAO (amorphous poly-alpha-olefins), metallocene-catalyzed polyolefins, as well as the midblock of SIS (styrene-isoprene-styrene), and SEBS (styrene-ethylene/butylene-styrene) block copolymers, and is frequently used in hygiene adhesives, packaging and assembly adhesives, and sealants.

- Broad compatibility with numerous elastomers, polymers, and other tackifying resins
- Consistent quality
- Excellent heat stability
- Light color
- Low odor

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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Property	Typical Value	Unit	Method[1]
Color, Gardner, Molten	2		ASTM D 6166
Color, Yellowness Index, 2 cm cell	8		ASTM E 313
DACP Cloud Point	68	°C	from 1:1 mixture of xylene and diacetone alcohol
MMAP Cloud Point	78	°C	from 1:2 mixture of methylcyclohexane and aniline
Molecular Weight, Mn	490	g/mol	GPC using polystyrene standards, elution with THF
Molecular Weight, Mz	1600	g/mol	
Polydispersity, Mw/Mn	1.8		
Melt Viscosity at 190°C	1200	cP	ASTM D 3236
Glass transition temperature (Tg-midpoint)	76	°C	DSC, 20°C/minute
Density at 21°C	1.04	g/mL	
Form	Flake		
Molecular Weight, Mw	860	g/mol	
Softening Point	130	°C	ASTM D 6090

[1] internal method based upon the specified norm

Applications

Caulks and Sealants, Assembly, Carpet, Packaging, Wax Modification, Film Modification, Labels, Tapes, Plastic Modification, Other coatings, Roadmarking, Roofing, Specialty Tapes, Wire and cable

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, APAO (amorphous poly-alpha-olefins), styrene-butadiene rubber (SBR) copolymer, SIS (styrene-isoprene-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 polymers, polypropylene polymers, paraffin and microcrystalline waxes, OBC (olefinic block copolymers), mPE (metallocene-catalyzed polyethylene), mPP (metallocene-catalyzed polypropylene), and TPE (thermoplastic elastomers).

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Soluble in aliphatic, aromatic, and chlorinated hydrocarbon solvents. Insoluble in alcohols and water.

Packaging

The standard package for Regaltac™ H series resins is a 50-pound (22.7-kg) multiwall paper bag. Samples (1 kilogram) are available for evaluation.

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.

Based on stability testing conducted on comparable resin samples, and available information from past experience, when stored in the original unopened container in an enclosed area under storage conditions outlined in this data sheet, protected from moisture, extreme temperatures and contamination, this product is estimated to continue to meet applicable sales specifications for 3 years from the date of manufacture. The exact useful life of this product can be affected by such things as storage and handling conditions and the conditions relating to past experiences may not be representative of your specific product storage and handling conditions. As a user of this product, you should be guided by your own determination that your use of the product is safe, lawful, and technically suitable in your intended applications. Refer to the Safety Data Sheet for available health, safety, storage and handling information.

Comments

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

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