

Technical Data Sheet

Piccotac™ 9095 Hydrocarbon Resin

Applications

- Adhesives/sealants-B&C
- Carpet construction
- Case and carton closures
- Casting wax
- Hygiene adhesives
- Labels non food contact
- Packaging tape
- Polymer modification
- Protective coatings
- Road markings
- Roofing ingredients
- Solvent borne packaging adhesives
- Specialty tape
- Wire/cable

Key Attributes

- Aliphatic resin with a low level of aromatic-modification
- Excellent adhesion in adhesives with styrene-isoprene-styrene (SIS) block copolymers
- Excellent balance of peel and shear
- Excellent compatibility with EVA, APO and metallocene polymers for packaging adhesives
- Excellent peel and tack properties
- Light color, low odor

Product Description

Piccotac™ 9095 hydrocarbon resin is a low molecular weight, slightly aromatic-modified aliphatic C5 tackifier designed for the adhesives industry. This light colored resin is compatible with styrenic block copolymers, EVA, and many polar elastomers. It is widely used with other tackifier resins, such as rosin esters and C9 hydrocarbon tackifiers to improve performance. It is primarily used in hot melt adhesives and pressure sensitive adhesives. Piccotac 9095 is stabilized by the addition of antioxidant.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Ring and Ball Softening Point	ASTM E 28	94 °C
Color, Gardner ^d	ASTM D6166	2
Cloudpoint, DACP ^e		47 °C
Cloudpoint, MMAP ^f		89 °C
Molecular Weight ^g		
M _z		4200
M _w		2000
M _n		930
M _w /M _n		2.2
Melt Viscosity		
10 poise		155 °C
100 poise		130 °C
1000 poise		115 °C
Glass Transition Temperature (T _g) ^h		44 °C

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^bUnless noted otherwise, the test method is ASTM.

^cUnits are in SI or US customary units.

^d50% in toluene.

^eCloud point temperature from 1:1 Vol:Vol xylene-diacetone alcohol, Eastman method.

^fCloud point temperature from 2:1 Vol:Vol aniline-methylcyclohexane, Eastman method.

^gMolecular weight measured via Gel Permeation Chromatography (GPC) using polystyrene standards, elution with THF.

Compatibility and Solubility

Compatible at all ratios or in limited but practically useful proportions, with natural and synthetic rubbers, low-vinyl acetate EVA (ethylene-vinyl acetate) copolymers, EnBA (ethylene n-butyl acetate) copolymers, APAO (amorphous poly-alpha-olefins), 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, PIB (polyisobutene), OBC (olefinic block copolymers), mPE (metallocene-catalyzed polyethylene), mPP (metallocene-catalyzed polypropylene), and TPE (thermoplastic elastomers).

Soluble at all useful proportions in aliphatic, aromatic, and chlorinated hydrocarbons, esters and ethers, and t-butyl acetate. Insoluble in alcohols, glycols and water.

Packaging

Pastilles, in multiwall paper bags (50 lbs, 22.7 kg, net wt). Also available in molten rail cars (160k lbs/truck) and molten tank trucks (42 k lbs/truck).

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. The useful life of this product can be affected by storage and handling conditions. When stored in the original unopened container in an enclosed area and protected from moisture, extreme temperatures and contamination, the shelf life of this product is estimated to continue to meet applicable sales specifications for two years from the date of manufacture. Shelf life is a guide not an absolute value. The product should be reanalyzed for critical properties at the end of its shelf life to see if it meets specification for use.

Comments

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

Eastman and its marketing affiliates shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

6/11/2020 3:39:49 PM