Product Data Sheet

Piccotac™ 1098 Hydrocarbon Resin

Application/Uses

- Automotive refinish
- Building and Construction
- Hot Melt Adhesives
- Nonwovens
- Packaging
- Pressure sensitive adhesives
- Solventborne Adhesives
- Tapes and Labels
- Wax Modification

Key Attributes

- Aliphatic C5 resin
- Excellent adhesion to natural rubber based adhesives
- Excellent color and color stability
- Excellent peel and tack properties
- Good adhesion to styrene-isoprene-styrene (SIS) block copolymers

Product Description

Piccotac™ 1098 hydrocarbon resin is a 100°C softening point, thermoplastic, low molecular weight, aliphatic C5 resin. Derived largely from mixed monomers of petroleum origin, it is characterized by its light color, excellent balance of tack and of adhesive and cohesive properties, heat resistance, and wide compatibility and solubility. Piccotac™ 1098 hydrocarbon resin is stabilized by addition of 0.10% antioxidant. It is designed primarily for use in pressure sensitive adhesives and hot melt adhesives and coatings.

Typical Properties

Property	Test Method	Typical Value, Units
Ring and Ball Softening Point	ASTM E 28	100°C
Color, Gardner [a]		3
Cloud Point [b]		
MMAP		94°C
DACP		57°C
Molecular Weight [c]		
M_z		4950
M_w		2150
M_n		900
M_w/M_n		2.4
Melt Viscosity		
10 poise		165°C
100 poise		135°C
1000 poise		120°C

Glass Transition Temperature (T_g)	[d]	47°C

[a] *50% resins solids in toluene*

[b] *MMAP: cloud point measured in a 1:2 mixture of methylcyclohexane and aniline; DACP: cloud point measured in a 1:1 mixture of xylene and 4-methyl-2-pentanone; For more information see "Hydrocarbon Spectrum" brochure WA-86*

[c] *Molecular weight measured via Gel Permeation Chromatography (GPC) using polystyrene standards*

[d] *Midpoint*

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Compatibility and Solubility

Compatible in useful proportions, with natural and synthetic rubbers, low vinyl-acetate concentration EVA (ethylene-vinyl-acetate) copolymers, SIS (styrene-isoprene-styrene) block polymers, amorphous poly-alpha olefins, paraffin and microcrystalline waxes. Soluble at all useful proportions in aliphatic, aromatic and chlorinated hydrocarbons, esters and ethers. Insoluble in alcohols, glycols and water.

Packaging

Piccotac™ 1098 is supplied in pastilles, in multi-wall paper bags (50 lbs, 22. 7 kg, net wt); in Gaylord boxes (900 lbs, 409 kg, net wt.) and 50, 200, 1000 and 1800 lb bags, 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.