

Piccotex™ 120 Hydrocarbon Resin



Piccotex™ 120 hydrocarbon resin is the highest softening point member of a series of highly stable, water-white, thermoplastic materials based on purified aromatic monomers. These resins have outstanding hot tack; heat sealability; resistance to discoloration; acid, alkali, and moisture resistance; and stability to elevated temperatures encountered in compounding. High initial and retained gloss, and improved application speeds on curtain coating and roll coating equipment. In EVA-based hot melt adhesives Piccotex™ 120 has useful compatibility with EVA grades with 18-40% vinyl acetate and is useful in formulating low-color adhesives with improved cohesion and high temperature resistance.

Piccotex™ 120 complies with some FDA regulations for applications involving direct contact with food. Compliance with a given regulation in a specific situation should be verified prior to use in a food contacting application.

- Excellent thermal stability
- High softening point
- Made from pure aromatic monomer
- Water-white initial color

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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Property	Typical Value	Unit	Method ¹
Ring and Ball Softening Point	117	°C	ASTM E 28
Color, Yellowness Index	7		ASTM E 313, 50% solids in toluene
MMA cloud point	10	°C	from 1:2 mixture of methylcyclohexane and aniline
OMS (odorless mineral spirits) cloud point	48	°C	from Stoddard solvent
Molecular Weight, Mn	1680	g/mol	GPC using polystyrene standards, elution with THF
Molecular Weight, Mw	3850	g/mol	
Molecular Weight, Mz	6500	g/mol	
Polydispersity (Mw/Mn)	2.3		
Melt Viscosity at 135°C	1000	poise	Brookfield
Melt Viscosity at 155°C	100	poise	
Melt Viscosity at 185°C	10	poise	
Density at 25°C	8.66	lb/gal	
Density at 25°C	1.05	kg/L	
Glass Transition Temperature (Tg-midpoint)	70	°C	DSC, 20°C/minute

¹ internal method based upon the specified norm

Applications

Roadmarking, Carpet, Caulks and Sealants, Correction fluids, Graphics, Other Construction Applications, Additives, Packaging specialities, Metal coatings, Speciality tapes, Tapes, Textiles, Waterproofings

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Compatibility and Solubility

Compatible in useful proportions with paraffin, chlorinated paraffin, microcrystalline waxes, low molecular weight polyethylenes, high styrene resins, vinyl toluene polymers, ethylene-vinyl acetate (EVA) copolymers with 18-40% VA, and many common plasticizers. Soluble in aliphatic, aromatic, and chlorinated hydrocarbons; ethers; esters; nitroparaffins; and benzyl alcohol. Insoluble in lower alcohols, glycols, and water. For low or zero VOC systems Piccotex™ 120 is soluble in the VOC exempt solvents t-butyl acetate (TBA) and perchlorobenzene tetrafluoride (PCBTF) and will tolerate some acetone and/or methyl acetate as a diluent in solvent systems based on TBA and/or PCBTF. VOC exemptions and environmental regulations vary regionally, and compliance with local standards should be verified before any claims about VOC content are made.

Packaging

Pastilles, in multi-wall paper bags (50 lbs, 22.7 kg net weight).

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 3 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. Synthomer makes no representation that the material in any particular shipment will conform exactly to the values given.