

Technical Data Sheet

Piccotex™ LC Hydrocarbon Resin

Applications

- Adhesives/sealants-b&c
- Bookbinding
- Carpet construction
- Case & carton sealing closings
- Casting wax
- Commercial printing inks
- Concrete
- Film modification
- Labels non food contact
- Marine
- Packaging components non food contact
- Packaging tape
- Polymer modification
- Protective coatings
- Roofing
- Specialty tape
- Tape non food contact
- Tires

Key Attributes

- Excellent thermal stability
- Intermediate softening point
- Made from purified aromatic monomers
- Water-white initial color

Product Description

Piccotex™ LC hydrocarbon resin is the medium softening point member of a series of highly stable, thermoplastic materials based on purified aromatic monomers with a slightly broader color specification than other Piccotex™ products. 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. Piccotex™ LC 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.

Typical Properties

| Property ^a | Test Method ^b | Typical Value, Units ^c |
|--------------------------------|--------------------------|-----------------------------------|
| General | | |
| Ring and Ball Softening Point | ASTM E 28 | 92 °C |
| Color, Gardner ^f | ASTM D 6166 | <1 |
| Color ^d | | |
| YID | | 8 |
| Cloud Point ^h | | |
| DACP | | <-50 °C |
| MMA | | 3 °C |
| OMS | | -9 °C |
| Molecular Weight ^g | | |
| M _n | | 860 |
| M _w | | 1400 |
| M _w /M _n | | 1.8 |
| M _z | | 2200 |
| Density | | |
| @ 25°C | | 1.05 kg/L (8.66 lb/gal) |
| Melt Viscosity | | |

| | |
|---|--------|
| 10 poise | 140 °C |
| 100 poise | 115 °C |
| 1000 poise | 100 °C |
| Glass Transition Temperature (T _g) ^e | 46 °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% resins solids in toluene

^eGlass transition temperature by differential scanning calorimetry.

^f50% in toluene.

^gMolecular weight, z-average from gel permeation chromatography, elution with THF.

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

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, 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™ LC is soluble in the VOC exempt solvents t-butyl acetate and perchlorobenzenetetrafluoride (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 wt).

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.

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