

Technical Data Sheet

Picco™ A-100 Hydrocarbon Resin

Applications

- Adhesives/sealants-b&c
- Bookbinding
- Carpet construction
- Case & carton sealing closings
- Commerical printing inks
- Lithographic printing inks
- Packaging tape
- Paints & coatings
- Polymer modification
- Protective coatings
- Road asphalt
- Roofing
- Specialty tape
- Tape non food contact
- Wire/cable

Key Attributes

- Excellent pigment wetting
- Excellent resistance to acids, alkalis and moisture
- Non-reactive
- Thermoplastic

Product Description

Picco™ A100 Hydrocarbon Resin is a low molecular weight, amber-colored, thermoplastic resin produced from aromatic petroleum-derived monomers. It is characterized by low molecular weight distribution parameters and hence by a high level of compatibility, by excellent resistance to acids, alkalies and moisture.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Ring and Ball Softening Point	ASTM E 28	101 °C
Color, Gardner ^e	ASTM D 6166	8
Density @ 25°C		1.05 kg/dm ³
Molecular Weight ^f		
M _n		560
M _w		860
M _w /M _n		1.5
M _z		1600
Cloud Point ^g		
EMDA		58 °C
MMAP		6 °C
OMS		35 °C
Melt Viscosity ^d		
@ 120°C		27500 cP
@ 140°C		2500 cP
@ 160°C		450 cP

^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.

^dBrookfield, LVT, spindle 31

^e50% in toluene.

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

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

Compatibility and Solubility

Picco™ A100 Hydrocarbon Resin has excellent solvent release, tack and tack retention; wide solubility and compatibility; and good resistance to oxygen. Also, it is extremely water repellent, provides excellent pigment wetting, and can be used with both reinforcing and non-reinforcing fillers. Picco™ A100 Hydrocarbon Resin is a viscous fluid at rubber-milling temperatures, and aids compounding by reducing viscosity and by adding tack while on the rolls. These advantages, combined with improvement in mould flow during cure, are obtained without lowering the cured hardness of the finished product.

Compatible at all ratios, or in limited but practically useful proportions with EVA (ethylene vinyl acetate) copolymers, natural and synthetic rubber, alkyds and drying oils, polar elastomers, rosin and its derivatives.

Soluble at all useful proportions in aliphatic, aromatic and chlorinated hydrocarbons; ink oils; ketones, esters, natural oils and fats. Insoluble in lower alcohols, acetone, ethylene glycol and water.

Packaging

Picco™ A100 Hydrocarbon Resin is pastillated and packed in polyethylene bags of 25 kg net, and supplied on shrink-wrapped pallets of 40 bags (1000 kg) each, from Eastman facilities in The Netherlands and from warehouses located in Europe.

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.

Picco™ A100 Hydrocarbon Resin material will remain within product specification limits, as mentioned under the heading "Product Specifications", for a period of at least twelve months after shipment from Eastman production facilities in The Netherlands, provided storage conditions outlined in this data sheet are observed.

However, as we can neither anticipate the conditions under which the resin is processed nor the end use applications for which it is used, we recommend that the material be tested upon receipt.

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