

Technical Data Sheet

Picco™ A-10 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
- Solder flux
- Specialty tape
- Tape non food contact
- Wire/cable

Key Attributes

- Excellent pigment wetting
- Excellent resistance to acids, alkalis and moisture
- Liquid plasticizer and tackifier
- Non-reactive
- Soluble in a wide variety of hydrocarbon solvents

Product Description

Picco™ A-10 Hydrocarbon Resin is a low molecular weight, resinous plasticizer derived largely from aromatic petroleum feedstock.

Picco™ A-10 Hydrocarbon Resin is characterized by its chemical inertness, excellent resistance to salts, acids, alkalies, water and brines and its solubility in a wide variety of hydrocarbon solvents. Picco™ A-10 Hydrocarbon Resin is indicated for use as a binder in lithographic (cold set) inks and as plasticizer, softener and tackifier for other resins and elastomers used in rubber compounding and various adhesive systems.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Ring and Ball Softening Point	ASTM E 28	Liquid @ 25°C
Color, Gardner ^g	ASTM D 6166	9
Cloud Point ^e		
DACP		-24 °C
EMDA		106 °C
OMS		0 °C
Molecular Weight ^f		
M _n		420
M _w		750
M _w /M _n		1.8
M _z		1850
Viscosity, Brookfield ^d @ 40°C		5500 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 LVTD, spindle 31

^eDACP: cloud point measured in a 1:1 mixture of xylene and 4-methyl-2-pentanone; OMS: odorless mineral spirits cloud point; EMDA: cloud point using a proprietary solvent blend; For more information see "Hydrocarbon Spectrum" brochure WA-86

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

^gNeat

Compatibility and Solubility

Compatible at all ratios, or in limited but practically useful proportions, with natural and synthetic rubbers, EVA resins (ethylenevinyl acetate copolymers), SIS (styrene-isoprene-styrene) and SBS (styrene-butadiene-styrene) block copolymers, low molecular weight polyethylene, paraffin and microcrystalline waxes, chlorinated paraffins, alkyd resins, epoxy resins, phenolic resins, terpene resins, rosin ester resins, chemical plasticizers, drying oils.

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

Packaging

Picco™ A-10 Hydrocarbon Resin is supplied in open-head steel drums, on pallets containing 4 drums each, from Eastman production facilities in The Netherlands and from warehouses located in Europe.

Storage

Inside storage is recommended. Storage at temperatures above 30°C should be avoided.

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™ A-10 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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