

Technical Data Sheet

Piccolastic™ A5 Hydrocarbon Resin

Applications

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

Key Attributes

- Light color
- Liquid
- Made from purified aromatic monomers
- Non-migrating plasticizer

Product Description

Piccolastic™ A5 hydrocarbon resin is a low molecular weight, light colored, polar, hydrocarbon resin derived from pure styrene monomer. Indicated for use in adhesives, coatings, plastics modification and rubber compounding, particularly as a plasticizer or softener. Using Piccolastic™ A5 in an adhesive system can improve flexibility at low temperatures. In styrenic block copolymer-based systems Piccolastic™ A5 associates strongly with the styrene endblocks, reducing melt viscosity and cohesion without greatly affecting tack and adhesion properties. Piccolastic™ A5 is compatible with EVA grades with up to 30% vinyl acetate and will improve low temperature flexibility and reduce the melt viscosity of the system.

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 ^f	ASTM D 6166	2
Cloud Point ^e		
DACP		<-50 °C
MMA ^g		-6 °C
OMS		-29 °C
Molecular Weight ^d		
M _n		300
M _w		360
M _w /M _n		1.3
M _z		560
Refractive Index		
@ 25°C		1.57
Melt Viscosity		

10 poise	45 °C
100 poise	30 °C
1000 poise	25 °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.

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

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

^fNeat

Compatibility and Solubility

Compatible with a wide variety of paraffin and microcrystalline waxes, alkyd resins, drying oils, epoxy resins, rosin and modified rosins, rosin esters, and vinyl resins, non-migrating where compatible. Soluble in aromatic, aliphatic, and chlorinated hydrocarbons; ketones; pyridine; carbon bisulfide; ethyl and butyl acetates; and turpentine. Insoluble in alcohols and glycols. Compatible at all ratios, or in limited but practically useful proportions, with a wide variety of materials, including SBR and SBR block copolymers; neoprene, nitrile, polybutadiene, and acrylic polymers; chlorinated rubber; EVA resins (ethylene-vinyl acetate copolymers); styrenated, vinylated, and drying oil alkyds; rosin resins; and EHEC (ethyl-hydroxy-ethylcellulose). For low or zero VOC systems Piccolastic A5 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

Liquid, in heavy-gauge metal drums (420 lbs, 190.5 kg, net wt) or bulk tank truck.

Storage

It is recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first. Hydrocarbon resins have been stored for up to two years with no observable change in properties. For storage periods exceeding two years the material should be re-tested to verify compliance with product specifications, but there is no indication that these products cannot be stored for many years without affecting performance.

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