



Product Data Sheet

Picco 5120 Hydrocarbon Resin

Picco 5120 hydrocarbon resin is one in a series of low molecular weight, non-polar, amber colored thermoplastic resins produced from petroleum-derived monomers, ranging in softening point from medium to high.

List of Applications

- Reinforcing agent for plastics and adhesives
- Rubber compounding extender
- Tackifier

Sales Specifications

Property	Minimum	Maximum	Test Method
Softening point, °C, Ring & Ball	115	125	CASPI-A-AN-G-PP-085
Color, Gardner, 50% in Toluene	—	14	CASPI-A-AN-G-AC-100

Compatibility and Solubility

Picco 5120 hydrocarbon resin is characterized by excellent resistance to acids, alkalis, and moisture; by good color stability; and, when formulated with elastomers, by a good balance of flex, tear, and adhesion properties.

Picco 5120 is compatible in useful proportions with styrene-butadiene rubber (SBR), rosin, modified rosins and rosin esters, alkyds and drying oils, polar elastomers, epoxy resins, and chlorinated rubber. It is soluble in aromatic, aliphatic, and chlorinated hydrocarbons; low kauri-butanol (KB) aliphatic ink oils; benzyl alcohol; cyclohexanol; and methyl ethyl ketone. *Picco* 5120 is insoluble in lower alcohols, acetone, and ethylene glycol.

FDA Status

Picco 5120 complies with requirements of the U.S. Food and Drug Administration (FDA) for use as specified in the Code of Federal Regulations, Title 21, subject to the limitations and requirements of each regulation under the following Section(s):

175.105 Adhesives

177.2600 Rubber Articles Intended for Repeated Use (not to exceed 30% by weight of rubber product)

The formulator must comply with all requirements of the FDA regulations, including conditions of use and extractive tolerances of the total compound or formula.

Packaging

Flake, in multi-wall kraft paper bags (50 lbs, 22.7 kg net wt) stacked 40 bags per pallet.

Additives

Picco 5120 hydrocarbon resin is stabilized with an antioxidant.

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Typical Properties

Property Data	Typical Values
Softening Point, Ring & Ball, °C	119°C
Gardner Color, 50% in Toluene	12
Cloudpoint, MMAP	23°C
Cloudpoint, DACP	10°C
Cloudpoint, OMS	
Initial	75°C
Full	58°C
Density @ 25°C	1.08 kg/L (9.0 lb/gal)
Glass Transition, T _g , Midpoint	60°C
Melt Viscosity	
10 poise	191°C
100 poise	166°C
1000 poise	144°C
Molecular Weight (Gel Permeation Chromatography)	
M _n	540
M _w	1800
M _z	5300

Storage

Flaked and crushed forms of resins may fuse, block, or lump during hot weather months, if stored near steam pipes or other sources of heat, and if stored for prolonged periods. Because of the extremely large surface area they present, flaked and crushed forms of 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 solubility of the resin in organic solvents. Accordingly, it is strongly recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first.

■ NORTH AMERICA

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