TECHNICAL DATA SHEET

Picco™ A-140 Hydrocarbon Resin

PICCO™ A-140 Hydrocarbon Resin is a low molecular weight, amber colored thermoplastic resin produced from petroleum-derived monomers that is polymerized under conditions that control its softening point within a narrow range. It is characterized by its excellent resistance to acids, alkalis and moisture. It shows good color stability and, when formulated with elastomers, a good balance of flex, tear, tack and adhesion properties. In styrenic block copolymer-based adhesives PICCO A-140 preferentially associates with the styrenic end blocks, producing higher cohesion at temperatures up to 70°C without affecting tack and adhesion properties. PICCO A-140 is particularly indicated as a processing and reinforcing agent in rubber compounds and as binder in protective coatings. It is also utilized in EVA-based woodworking adhesives.

- Excellent pigment wetting
- Excellent resistance to acids, alkalis and moisture
- Excellent water repellant
- Non-reactive
- Reinforcing resin for styrene block copolymers
- Thermoplastic

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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Property	Typical Value	Unit	Method[1]
Ring and Ball Softening Point	140	°C	ASTM E 28
Color, Gardner	6		ASTM D 6166, 50% solids in toluene
Density at 25°C	1.07	kg/dm³	
Molecular Weight, Mn	950	g/mol	GPC, using polystyrene standards, elution with THF
Molecular Weight, Mw	1940	g/mol	
Molecular Weight, Mz	3630	g/mol	
Polydispersity (Mw/Mn)	2		
Viscosity at 23°C	15	Pa.s	Haake C&P,56% in Halterman Test Oil 6/9

[1] internal method based upon the specified norm

Applications

Caulks and Sealants, Roadmarking, Carpet, Additives, Graphics, Tapes, Metal coatings, Coatings, Other Construction Applications, Waterproofings, Other adhesives

Compatibility and Solubility

Compatible at all ratios, or in limited but practically useful proportions, natural rubber and synthetic rubbers (SBR, SIS, SBS, SEBS), rosin, modified rosins and rosin esters, alkyds and drying oils, polar elastomers, epoxy resins, and chlorinated rubber. Limited compatible with EVA (ethylene vinyl acetate) copolymers.
Soluble at all useful proportions in aromatic, aliphatic, and chlorinated hydrocarbons; ink oils; benzyl alcohol; cyclohexanol; methyl ethyl ketone; esters; natural oils and fats. Insoluble in lower alcohols, acetone, and ethylene glycol.

Packaging

PICCO™ A140 Hydrocarbon Resin is pastillated and packed in polyethylene bags of 20 kg net, and supplied on shrink-wrapped pallets

of 50 bags (1000 kg) each, from Synthomer 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™ A-140 Hydrocarbon Resin material will remain within product specification limits, as mentioned in the sales specification sheet, for a period of at least 12 months after shipment from Synthomer 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, the product should be reanalyzed for critical properties at the end of its shelf life to see if it meets specification for use.

Comments

Properties reported here are typical of average lots. Synthomer makes no representation that the material in any particular shipment will conform exactly to the values given.