

Picco™ AR-100 Hydrocarbon Resin

PICCO™ AR-100 Hydrocarbon Resin is a low molecular weight, modified aromatic hydrocarbon resin. This resin has good solubility in aliphatic and aromatic hydrocarbons and is compatible with a wide variety of thermoplastic and elastomeric polymers. It is utilized frequently in EVA-based woodworking adhesives and finds widespread use in pressure sensitive adhesives, particularly in systems containing natural rubber or styrene-butadiene rubber (SBR). It offers an excellent balance of tack, adhesion and cohesive properties to pressure sensitive systems. In styrenic block copolymer-based adhesives PICCO AR-100 preferentially associates with the styrenic end blocks, producing higher room-temperature cohesion without affecting tack and adhesion properties.

- Broad compatibility and solubility
- Non-reactive
- Reinforcing tackifier resin for many polymers used in the adhesive industry

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

eMail: Adhesive.Technologies@Synthomer.com

Property	Typical Value	Unit	Method ¹
Ring and Ball Softening Point	100	°C	ASTM E 28
Color, Gardner	9		ASTM D 6166, 50% solids in toluene
Density at 25°C	1.06	kg/dm ³	
Bromine Number	15	g/100g	
Molecular Weight, Mn	580	g/mol	GPC, using polystyrene standards, elution with THF
Molecular Weight, Mw	690	g/mol	
Molecular Weight, Mz	1040	g/mol	
Polydispersity (Mw/Mn)	1.2		
Melt Viscosity at 160°C	310	cP	Brookfield
Melt Viscosity at 140°C	1700	cP	
Melt Viscosity at 120°C	18000	cP	

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, with natural and synthetic rubbers, including SBR (styrene-butadiene rubber), SIS (styrene-isoprene-styrene) and SBS (styrene-butadiene-styrene) block copolymers, EVA resins (ethylene vinyl acetate copolymers), low molecular weight polyethylene, and paraffin and microcrystalline waxes.

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

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Packaging

PICCO™ AR100 Hydrocarbon Resin is pastillated and packed in polyethylene bags of 25 kg net, and supplied on shrinkwrapped pallets of 40 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™ AR-100 Hydrocarbon Resin material will remain within product specification limits, as mentioned in the sales specification sheet, for a period of at least twelve 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.