EASTMAN

Technical Data Sheet

Picco™ AR-85 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
- Specialty tape
- Tape non food contact
- Wire/cable

Key Attributes

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

Product Description

Picco™ AR-85 Hydrocarbon Resin is a low molecular weight, modified aromatic hydrocarbon resin. This resin has a good solubility in aliphatic and aromatic hydrocarbons, and is compatible with a wide variety of thermoplastic and elastomeric polymers.

Picco™ AR-85 Hydrocarbon Resin finds a widespread use in pressure sensitive adhesives, particularly in systems containing natural rubber or SBR. It offers an excellent balance of tack, adhesion and cohesive properties to pressure sensitive systems.

Typical Properties

Property[a]	Test Method[b]	Typical Value, Units[c]
General		
Ring and Ball Softening Point	ASTM E 28	87 °C
Color, Gardner[d]	ASTM D 6166	9
Density		
@ 25°C		1.05 kg/dm^3
Bromine Number		15 g/100g
Molecular Weight[e]		
M_n		530
M_w		720
M_w/M_n		1.4
M_z		1100
Melt Viscosity		
@ 120°C		2800 cP
@ 140°C		400 cP
@ 160°C		100 cP

[a] *Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.*

[b] *Unless noted otherwise, the test method is ASTM.*

[c] *Units are in SI or US customary units.*

[d] *50% in toluene.*
[e] *Molecular weight, z-average from gel permeation chromatography, elution with THF.*

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, 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.

Packaging

Picco™ AR-85 Hydrocarbon Resin is pastillated and packed in polyethylene bags of 25 kg net, and supplied on shrink-wrapped pallets of 40 bags (1000 kg) each, from Eastman 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-85 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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