EASTMAN

Technical Data Sheet

Piccotac™ 1115 Hydrocarbon Resin

Applications

- Adhesives/sealants-b&c
- Carpet construction
- Case & carton sealing closings
- Casting wax
- Labels non food contact
- Packaging tape
- Paints & coatings
- Polymer modification
- Protective coatings
- Road markings
- Roofing ingredients
- Specialty tape
- Tape non food contact
- Tires
- Wax ingredients
- Wire/cable

Key Attributes

- High softening point increases cohesion
- Most aliphatic and highest molecular weight of the Eastman tackifiers

Product Description

Piccotac™ 1115 hydrocarbon resin is a high softening point, thermoplastic, relatively high molecular weight, aliphatic C5 resin derived from dienes and other reactive olefin monomers. It is characterized by its light color, excellent balance of tack and adhesive and cohesive properties, and broad compatibility and solubility. Piccotac™ 1115 hydrocarbon resin is stabilized by addition of 0.10% antioxidant. It is primarily for use in hot melt adhesives, pressure sensitive adhesives, and wax modification.

Typical Properties

Property[a]	Test Method[b]	Typical Value, Units[c]
General		
Ring and Ball Softening Point	ASTM E 28	112 °C
Color, Gardner[e]	ASTM D 6166	4
Cloud Point[g]		
DACP		69 °C
MMAP		96 °C
Molecular Weight[f]		
M_n		1100
M_w		3800
M_w/M_n		3.4
M_z		9650
Melt Viscosity		
10 poise		190 °C
100 poise		155 °C
1000 poise		130 °C
Glass Transition Temperature (T_g)[d]		58 °C

[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] *Glass transition temperature by differential scanning calorimetry.*

[e] *50% in toluene.*
[f] *Molecular weight, z-average from gel permeation chromatography, elution with THF.*
[g] *Cloud point temperature from 2:1 Vol:Vol aniline-methylcyclohexane, Eastman method.*

Compatibility and Solubility

Compatible in useful proportions, with natural and synthetic rubbers, low vinyl-acetate concentration EVA (ethylene-vinyl-acetate) copolymers, SIS (styrene-isoprene-styrene) block copolymers, amorphous poly-alpha olefins, 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

Piccotac™ 1115 is supplied in multi-wall paper bags (50 lbs, 22.7 kg net wt.) and in lots of 1000 and 200 lbs, molten rail cars (160k lbs/truck) and molten tank trucks (42 k lbs/truck).

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.

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