TECHNICAL DATA SHEET

# Piccotac™ 1115 Hydrocarbon Resin



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 adhesive and cohesive properties, and broad compatibility and solubility. PICCOTAC™ 1115 is stabilized by addition of antioxidant. It is primarily for use in hot melt adhesives, pressure sensitive adhesives, and wax modification.

- High softening point increases cohesion
- Increased temperature resistance
- Most aliphatic and highest molecular weight of the Synthomer tackifiers

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 | 112 | °C | ASTM E 28 |
| Color, Gardner | 3 | | ASTM D 6166, 50% solids in toluene |
| MMAP cloud point | 98 | °C | from 1:2 mixture of methylcyclohexane and aniline |
| DACP cloud point | 69 | °C | from 1:1 mixture of xylene and diacetone alcohol |
| Molecular Weight, Mn | 1500 | g/mol | GPC using polystyrene standards, elution with THF |
| Molecular Weight, Mw | 3870 | g/mol | |
| Molecular Weight, Mz | 11120 | g/mol | |
| Polydispersity (Mw/Mn) | 2.9 | | |
| Melt Viscosity at 130°C | 1000 | poise | |
| Melt Viscosity at 155°C | 100 | poise | |
| Melt Viscosity at 190°C | 10 | poise | |
| Glass Transition Temperature (Tg-midpoint) | 58 | °C | DSC, 20°C/minute |

[1] internal method based upon the specified norm

## Applications

Carpet, Caulks and Sealants, Labels, Other coatings, Packaging, Plastic Modification, Roadmarking, Roofing, Specialty Tapes, Tapes, Wax Modification, Wire & Cable, Adhesives

## Compatibility and Solubility

Compatible in useful proportions with natural and synthetic rubbers, butyl types of rubber, low vinyl-acetate concentration EVA (ethylene-vinyl-acetate) copolymers, SIS (styrene-isoprene-styrene) block copolymers, APAO (amorphous poly-alpha olefins), polyethylene polymers and copolymers, polypropylene polymers and copolymers, paraffin and microcrystalline waxes.

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

## Packaging

Pastilles, in multi-wall paper bags (50 lbs, 22.7 kg net wt.) and 2000 lb. sacks. Also available in 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.

The useful life of this product can be affected by storage and handling conditions. When stored in the original unopened container in an enclosed area and protected from moisture, extreme temperatures and contamination, the shelf life of this product is estimated to continue to meet applicable sales specifications for two years from the date of manufacture. Shelf life is a guide not an absolute value. 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.