Piccotac™ 1020-E Hydrocarbon Resin

Piccotac™ 1020-E hydrocarbon resin is a liquid, low molecular weight hydrocarbon resin based on aliphatic monomers of petroleum origin. Piccotac™ 1020-E is pale in color, has good heat and light stability and contributes an excellent balance of tack and adhesive properties to systems blended with elastomers. Piccotac™ 1020-E is designed primarily for use in pressure sensitive and hot melt adhesives. It is stabilized with antioxidant.

- Aliphatic liquid resin used to increase tack and reduce viscosity
- Excellent adhesion in adhesives with styrene-isoprene-styrene (SIS) block copolymers

Property	Typical Value	Unit	Method[1]
Ring and Ball Softening Point	Liquid		ASTM E 28
Color, Gardner	5 (neat)		ASTM D6166
Viscosity at 30°C (neat)	27776	cP (mPa·s)	Brookfield
MMAP cloud point	92	°C	from 1:2 mixture of methylcyclohexane and aniline
DACP cloud point	46	°C	from 1:1 mixture of xylene and diacetone alcohol
Molecular Weight, Mn	1085	g/mol	GPC using polystyrene standards, elution with THF
Molecular Weight, Mw	1750	g/mol	
Molecular Weight, Mz	2900	g/mol	
Polydispersity (Mw/Mn)	1.6		

[1] internal method based upon the specified norm

Applications

Carpet, Caulks and Sealants, Labels, Other adhesives , Additives, Packaging specialities, Metal coatings, Speciality tapes, Tapes, Waterproofings

Compatibility and Solubility

Compatible at all ratios or in limited but practically useful proportions, with natural and synthetic rubbers, EVA (ethylene-vinyl acetate) copolymers, APAO (amorphous poly-alpha-olefins), SIS (styrene-isoprene-styrene) and SBS (styrene-butadiene-styrene) block copolymers, polyethylene polymers, polypropylene polymers, paraffin and microcrystalline waxes; PIB (polyisobutene), OBC (olefinic block copolymer), and metallocene-catalyzed polyolefins.
Soluble at all useful proportions in aliphatic, aromatic, and chlorinated hydrocarbons. Insoluble in alcohols and water.

Packaging

Piccotac™ 1020-E hydrocarbon resin is supplied in open-head steel drums (170 kgs net wt.), on pallets containing 4 drums each, from Synthomer production facilities in the Netherlands and from warehouses located in Europe.

Storage

Inside storage is recommended. Storage at temperatures above 30°C should be avoided.
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.

Piccotac™ 1020-E hydrocarbon resin material will remain within product specification limits for a period of at least twelve months after shipment from Synthomer's 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.

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.