

Technical Data Sheet

Piccotac™ 1020-E Hydrocarbon Resin

Applications

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

Key Attributes

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

Product Description

Piccotac™ 1020-E Hydrocarbon Resin is a liquid, low molecular weight hydrocarbon resin based on aliphatic monomers of petroleum origin. Piccotac™ 1020-E Hydrocarbon Resin 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 Hydrocarbon Resin is designed primarily for use in pressure sensitive and hotmelt adhesives.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Ring and Ball Softening Point	ASTM E 28	Liquid
Color, Gardner ^e	ASTM D 6166	6
Cloud Point ^g		
DACP		46 °C
MMAp		92 °C
Molecular Weight ^f		
M _n		1085
M _w		1750
M _w /M _n		1.6
M _z		2900
Viscosity, Brookfield ^d		
@ 30°C		30.000 cP

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^bUnless noted otherwise, the test method is ASTM.

^cUnits are in SI or US customary units.

^dBrookfield LVTD, spindle 31

^e50% in toluene.

^fMolecular weight, z-average from gel permeation chromatography, elution with THF.

^gCloud point temperature from 2:1 Vol:Vol aniline-methylcyclohexane, Eastman method.

Compatibility and Solubility

Compatible at all ratios, or in limited but practically useful proportions, with natural and synthetic rubber; paraffin and microcrystalline waxes; polyolefins; EVA resins (ethylene-vinyl acetate copolymers); amorphous polypropylene; and SBS (styrene-butadiene-styrene) and SIS (styrene-isoprene-styrene) thermoplastic block copolymer rubbers.

Soluble in aliphatic and aromatic hydrocarbons, long-chain alcohols (ethylhexanol), MIBK (methyl isobutyl ketone), and trichloroethylene. Insoluble in other ketones, glycols, lower alcohols and water.

Packaging

Piccotac™ 1020-E Hydrocarbon Resin is supplied in open-head steel drums, on pallets containing 4 drums each, from Eastman 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, 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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