

Piccotac™ 7590-N

Hydrocarbon Resin

Piccotac™ 7590-N hydrocarbon resin is an aromatic-modified, aliphatic hydrocarbon resin developed for the adhesives industry. Its specific degree of modification provides Piccotac™ 7590-N with an excellent compatibility with styrene-based thermoplastic elastomers, and in particular SBS (styrene-butadiene-styrene and SEBS (styrene-ethylene/butylene-styrene) block copolymers. It is also compatible with APAO (amorphous poly-alpha-olefins), metallocene-catalyzed polyolefins, SBR, EVA, and many polar elastomers. Due to its low odor and very good thermostability, Piccotac™ 7590-N is suggested as tackifying resin for high quality hot melt and hot melt pressure sensitive adhesives. Piccotac™ 7590-N is stabilized by addition of antioxidant.

- Allows lower than usual hot melt coating temperatures
- Excellent compatibility and performance in SBS and SEBS block copolymer HMPSA systems
- Excellent compatibility with natural rubber, SBR and polyolefins
- Good balance of peel and shear properties
- Light color, low odor
- Low softening point, good low temperature properties

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	91	°C	ASTM E 28
Color, Gardner	2		ASTM D 6166, 50% solids in toluene
MMAp cloud point	63	°C	from 1:2 mixture of methylcyclohexane and aniline
DACP cloud point	22	°C	from 1:1 mixture of xylene and diacetone alcohol
Molecular Weight, Mn	870	g/mol	GPC using polystyrene standards, elution with THF
Molecular Weight, Mw	1560	g/mol	
Molecular Weight, Mz	2850	g/mol	
Polydispersity (Mw/Mn)	1.8		
Melt Viscosity at 120°C	13000	cP	Brookfield
Melt Viscosity at 140°C	2100	cP	
Melt Viscosity at 160°C	520	cP	
Density at 25°C	0.97	kg/dm ³	
Glass Transition Temperature (Tg-midpoint)	39	°C	DSC, 20°C/minute

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

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Compatibility and Solubility

Compatible in useful proportions with natural rubber and synthetic rubbers, EVA (ethylene-vinyl acetate) copolymers, SEBS (styrene-ethylene/butylene-styrene), SBS (styrene-butadiene-styrene), SIS (styrene-isoprene-styrene) and SIBS (styrene-isoprene/butadiene-styrene) block copolymers, APAO (amorphous poly-alpha-olefins), mPE (metallocene-catalyzed polyethylene), mPP (metallocene-catalyzed polypropylene), low molecular weight polyethylene, 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™ 7590-N hydrocarbon resin is pastillated and packed in polyethylene bags of 20 kg net, and supplied on shrink wrapped pallets of 50 bags (1000 kg) each, from Synthomer 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.

Piccotac™ 7590-N hydrocarbon resin material will remain within product specification limits for a period of at least twelve months after shipment from Synthomer 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.