

Piccotac™ 8595 Hydrocarbon Resin

PICCOTAC™ 8595 hydrocarbon resin is an aromatic-modified, aliphatic hydrocarbon resin developed for the adhesives industry. Its specific degree of modification and low molecular weight provides PICCOTAC™ 8595 with excellent compatibility in styrene block copolymers, amorphous polyolefins (APO), metallocene-polyolefins (mPE, mPP), EVA, and many polar elastomers. It is widely used to compatibilize different elastomers into a formulation to improve performance. It is primarily used in hot melt adhesives and pressure sensitive adhesives. PICCOTAC™ 8595 is stabilized by the addition of antioxidant.

- Excellent balance of peel and shear
- Excellent compatibility with EVA, APO and metallocene polymers for packaging adhesives
- Excellent compatibility with and performance in SIS, and SIS/SBS block copolymer HMPSA systems
- Light color, low odor
- Slightly aromatic character

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	95	°C	ASTM E 28
Color, Gardner	2		ASTM D 6166, 50% solids in toluene
MMAP cloud point	82	°C	from 1:2 mixture of methylcyclohexane and aniline
DACP cloud point	37	°C	from 1:1 mixture of xylene and diacetone alcohol
Molecular Weight, Mn	930	g/mol	GPC using polystyrene standards, elution with THF
Molecular Weight, Mw	1760	g/mol	
Molecular Weight, Mz	3360	g/mol	
Polydispersity (Mw/Mn)	1.9		
Melt Viscosity at 120°C	3200	cP	Brookfield
Melt Viscosity at 140°C	730	cP	
Melt Viscosity at 160°C	180	cP	
Density at 25°C	0.97	kg/dm ³	
Glass Transition Temperature (Tg-midpoint)	48	°C	DSC, 20°C/minute

¹ internal method based upon the specified norm

Applications

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

Compatibility and Solubility

Compatible at all ratios or in limited but practically useful proportions, with natural rubber, styrenic block copolymers such as SIS (styrene-isoprene-styrene), SEBS (styrene-ethylene/butylene-styrene), and SIBS (styrene-isoprene-butadiene-styrene) and styrenic block copolymer blends of SIS/SBS, SIBS/SIS and SIBS/SBS, EVA (ethylene-vinyl acetate) copolymers, EnBA (ethylene n-butyl

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acetate) copolymers, APAO (amorphous poly-alpha-olefins), paraffin and microcrystalline waxes, PIB (polyisobutene), OBC (olefinic block copolymers), mPE (metallocene-catalyzed polyethylene), mPP (metallocene-catalyzed polypropylene), and TPE (thermoplastic elastomers).

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

Packaging

Pastilles, in multiwall bags (50 lbs., 22.7 kg, net wt.), packaged on shrink wrapped pallets of 50 bags each (2500 lbs, 1134 kg).

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.