

Technical Data Sheet

Piccotac™ 7590 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

- Allows lower than usual hot melt coating temperatures
- Excellent compatibility and performance in SIBS block copolymer HMPSA systems
- Good compatibility with SBS block copolymers
- Light color
- Low odor

Product Description

Piccotac™ 7590 hydrocarbon resin is an aromatic-modified, aliphatic tackifier resin with a unique combination of light color, low odor and statistically-modeled molecular weight distribution. This resin is an excellent tackifier for all styrene based thermoplastic elastomers, and in particular the newly developed SIBS (styrene-isoprene-butadiene-styrene) block copolymers.

Note: Piccotac™ 7590 is not on the DSL for Canada.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Ring and Ball Softening Point	ASTM E 28	91 °C
Color, Gardner ^e	ASTM D 6166	3
Appearance (sediment)		Pass
Aniline Point, mixed aniline		58-66 °C
Cloud Point ^g		
MMAp		63 °C
Molecular Weight ^f		
M _z		2500
Glass Transition Temperature (T _g) ^d		42 °C

^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.

^dGlass transition temperature by differential scanning calorimetry.

^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 in useful proportions, with natural and synthetic rubbers, low vinyl-acetate concentration EVA (ethylene-vinyl-acetate) copolymers, SIS (styrene-isoprene-styrene), SBS (styrene-butadiene-styrene and SIBS (styrene-isoprene/butadiene-styrene) block copolymers, amorphous poly-alpha olefins, 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

Pastilles, in multiwall kraft bags (50 lbs, 22.7 kg, net wt). Packed on shrink-wrapped pallets of 50 bags (2500 lbs).

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.

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