TECHNICAL DATA SHEET

Piccolastic™ D125 Hydrocarbon Resin

Piccolastic™ D125 hydrocarbon resin is an high molecular weight, light colored, polar, thermoplastic hydrocarbon resin. Derived from pure styrene monomer, it exhibits to a limited degree, properties normally associated with higher polymeric resins - i.e., toughness and resiliency. Although it is hard and tough, it is readily workable, retains some wetting qualities, and provides excellent resistance to water, chemicals, shock, oil, and grease. It can be used as a modifier for rubber and plastic compounds used in shoe construction and as a binder for xerographic toners.

Piccolastic™ D125 is also useful to formulate glues used for solvent welding of styrenic plastics. In styrenic block copolymer-based systems Piccolastic™ D125 associates strongly with the styrene endblocks, reducing melt viscosity and cohesion without greatly affecting tack and adhesion properties. Piccolastic™ D125 is compatible with EVA grades with up to 20% vinyl acetate and will improve heat resistance and increase the melt viscosity of the system. Piccolastic™ D125 complies with many FDA regulations for applications involving direct contact with food. Compliance with a given regulation in a specific situation should be verified prior to use in a food contacting application.

- Light color
- Made from pure styrenic monomer
- Shock resistance

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	127	°C	ASTM E 28
Color, Gardner	2		ASTM D 6166, 50% solids in toluene
MMAP cloud point	13	°C	from 1:2 mixture of methylcyclohexane and aniline
OMS (odorless mineral spirits) cloud point	>180	°C	from Stoddard solvent
Molecular Weight, Mn	1450	g/mol	GPC using polystyrene standards, elution with THF
Molecular Weight, Mw	41800	g/mol	
Molecular Weight, Mz	238000	g/mol	
Polydispersity (Mw/Mn)	28.8		
Melt Viscosity at 160°C	1000	poise	Brookfield
Melt Viscosity at 185°C	100	poise	
Melt Viscosity at 265°C	10	poise	
Refractive Index at 25°C	1.60		
Density at 25°C	8.75	lb/gal	
Density at 25°C	1.05	kg/L	
Glass Transition Temperature (Tg-midpoint)	64	°C	DSC, 20°C/minute

[1] internal method based upon the specified norm

Applications

Adhesives, Assembly, Carpet, Caulks and Sealants, Film Modification, Graphic inks, Labels, Other coatings, Packaging, Plastic Modification, Roofing, Specialty Tapes, Packaging Tapes, Wax Modification

Compatibility and Solubility

Compatible in useful proportions with chlorinated paraffins, coumarone indene resins, polystyrene and lower molecular weight aromatic resins, rosin and modified rosins, rosin esters, and styrene-butadiene rubber (SBR) and SBR block copolymers. Soluble in useful proportions in aromatic and chlorinated hydrocarbons, ketones, and ethers; insoluble in aliphatic hydrocarbons, alcohols, and glycols. For low or zero VOC systems Piccolastic™ D125 is soluble in the VOC exempt solvents t-butyl acetate and perchlorobenzenetetrafluoride (PCBTF) and will tolerate some acetone and/or methyl acetate as a diluent in solvent systems based on TBA and/or PCBTF. VOC exemptions and environmental regulations vary regionally and compliance with local standards should be verified before any claims about VOC content are made.

Packaging

Pastilles, in multi-wall paper bags (50 lbs, 22. 7 kg net wt) or in bulk boxes (1400 lbs, 635 kg net wt).

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 3 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.