TECHNICAL DATA SHEET

Permalyn™ 5095 Synthetic Resin

Permalyn™ 5095 synthetic resin, a pale, thermoplastic resin, is the glycerol ester of gum rosin.

It is produced by a special process that yields a low-odor, low-acid-number resin that is suggested for use as a modifier for film-formers, elastomers, and waxes in various adhesives and protective coatings where pale color and minimal odor are required.

- Low odor
- Medium softening point
- Resistant to thermal degradation
- Thermoplastic resin
- Very good color stability
- Wide solubility and compatibility range

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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Property	Typical Value	Unit	Method[1]
Description, Base Resin	Glycerol Ester of Gum Rosin		
Ring and Ball Softening Point	88	°C	ASTM E 28
Color, Gardner	4		ASTM D 6166, 50% solids in toluene
Acid Number	8	mg KOH/g	ASTM D 465
Density at 25°C	1.08	kg/dm³	
Melt Viscosity at 140°C	560	cP	
Melt Viscosity at 160°C	150	cP	
Melt Viscosity at 120°C	3300	cP	

[1] internal method based upon the specified norm

Applications

Caulks and Sealants, Assembly, Packaging Speciality, Carpet, Packaging, Graphic inks, Film Modification, Hygiene Adhesives, Labels, Tapes, Plastic Modification, Other coatings, Roadmarking, Roofing, Other adhesives , Specialty Tapes, Tire components, Wire and cable, Adhesives

Compatibility and Solubility

Compatible at all ratios, or in limited but practically useful proportions, with natural and synthetic rubbers, EVA (ethylene-vinyl acetate) copolymers, SIS (styrene-isoprene-styrene) and SBS (styrene-butadiene-styrene) block copolymers, 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

Permalyn™ 5095 synthetic resin is pastillated and packed in polyethylene bags of 25 kg net, and supplied on shrink-wrapped pallets of 40 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.

Permalyn™ 5095 synthetic resin material will remain within product specification limits for a period of at least twelve months after shipment from Synthomer"s 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.