

Technical Data Sheet

Permalyn™ 5110-C Synthetic Resin

Applications

- Adhesives/sealants-b&c
- Bookbinding
- Caps & lids non-food contact
- Carpet construction
- Case & carton sealing closings
- Commerical printing inks
- Film modification
- Labels non food contact
- Packaging component films
- Packaging components non food contact
- Packaging tape
- Paints & coatings
- Polymer modification
- Protective coatings
- Road markings
- Roofing ingredients
- Solder flux
- Specialty tape
- Tape non food contact
- Tires
- Wax ingredients
- Wire/cable

Key Attributes

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

Product Description

Permalyn™ 5110-C synthetic resin is the pentaerythritol ester of gum rosin. It is produced by a special process that yields a low odor, low acid number resin. It 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.

Typical Properties

Property	Test Method	Typical Value, Units
General		
Ring and Ball Softening Point	ASTM E 28	99-106 °C
Color, Gardner ^b		6
Color, USRG Rosin Scale		X0
Acid Number (mg KOH/g)		6-16
Description, Base Resin		Rosin

^b50% resins solids in toluene or xylene

Compatibility and Solubility

Compatible with natural rubber, SBR (styrene-butadiene), polychloroprene, 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 in aromatic, aliphatic and chlorinated hydrocarbons, esters, ketones, and higher molecular weight alcohols. Insoluble in methanol, ethanol, isopropanol and water.

Packaging

Packaged in aluminum kraft bags of 25 kg net, and supplied on shrink-wrapped pallets of 30 bags each

Storage

Because of the extremely large surface area, flaked forms of resins are prone to gradual oxidation, some more so than others. This could result in darkening and /or could have an adverse effect on solubility in organic solvents. It is strongly recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first. Recommended storage is in original packaging, dry, free from contamination, below 30°C.

Flaked forms of low to medium-softening point resins may fuse, block, or lump:

- (1) during hot-weather months,
- (2) if stored near steam pipes or other sources of heat, and
- (3) upon prolonged storage and compression.

Permalyn™ 5110-C will remain within product specification limits for a period of at least 18 months from the date of manufacture, provided recommended storage conditions are observed.

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