



SUSTAINABLE PINE RESIN DERIVATIVES

TECHNICAL DATA SHEET

Pentaerythritol Ester of Gum Rosin 100

Description

Pentaerythritol Ester of Gum Rosin is a high softening point thermoplastic resin made of gum rosin and pentaerythritol. It is well soluble in aromatic and aliphatic hydrocarbon solvents, soluble in esters, ketones and chlorinated solvents, but it is insoluble in methanol, ethanol, isopropanol and water. It is well suited for the adhesives industry due to its low odor, excellent heat stability and high adhesion properties and compatibility with many kinds of polymers.

Features:

- » It is easily dissolved in many types of solvents such as petroleum hydrocarbons, aromatics, ester, ketone, gasoline, benzene, acetic ether, acetone, turpentine and so on.
- » Cannot be dissolved in water and alcohol.
- » Can be widely used with many polymers such as NR, CR, SBR, EVA, SIS, SBS etc, and low molecular weight polyethylene, paraffin and microcrystalline waxes.

Specifications:

Test Item	Result
Softening point (R&B, °C)	100 ±5
Acid number (mgKOH/g) max	20
Color (Gardner, 50% toluene solution) max	4
Solubility (with benzene 1:1)	Clear

Applications:

- » Can be used with polymers such as EVA for industrial grade hot melt adhesives, glue sticks and bookbinding adhesives, or with SBS & SIS for pressure sensitive adhesives.
- » Can be used to make adhesives, emulsions and paints with natural rubber and chloroprene rubber.
- » Can be used as tackifier and binder for road marking paints.
- » Can be used with plant based oils for phenolic paints.

Packaging:

- » In Pellets/Granules form, Packed in 25 Kgs/Bag Intertexture Kraft Paper Bags.

Storage:

- » Store in cool and dry place.