

C9 Petroleum Resin

Properties and Characteristics

C9 petroleum resin is produced through the process of fractionation, thermal polymerization, flash evaporation and molding with the carbon nine as the raw material from ethylene fragmentation. C9 has good transparency, gloss, compatibility, insulation, excellent solubility, and stability to acid-base chemicals as well as good bond and good thermal conductivity.

Specifications

Property	Value
CAS Number	64742-16-1
EINECS Number	265-116-8
Molecular Formula	C ₁₅ H ₁₆ O ₂
Molecular Weight	1000-2200
Other Names	2,2-bis(4-hydroxyphenyl) propane; BPA; hydroxybenzene
Appearance	Light yellow-brown granules

Index	Value	Standard
Softening Point	95-140°C	GB4507-84
Acid	≤1 mgkOH/g	GB2895
Color Code	8-17	Gardner
Bromine Value	TBD	SWB2301-62
Ash	≤0.1% (wt.)	GB2295

Applications

Rubber processing: Used for the roles of softening, strengthening and increasing viscosity to enhance molding processing performance and prevent delaminating, bubbles in the product. It is mainly used in the production of tires, rubber V-belts, and tubes.

Adhesive production: Used in the production of hot melt adhesives and pressure sensing adhesive to significantly increase its viscosity, elasticity, and low temperature performance. It has excellent performance of water resistance and is often used in plywood, wallpaper and leather bonding.

Paint production: Used in the manufacture of the reinforced latex and oil-soluble paints, with the function of effectively improving paint glossiness, hardness, water resistance, and chemical resistance.

Ink production: Suitable for use in the production of printing inks due to its high softening point, stable performance, and solubility in hydrocarbon resins. The addition of petroleum resins to inks allow for increased drying speeds, enhanced coloring and brightening properties that significantly impact overall print performance.

Paper industry: Used as a paper sizing agent. Compared to traditional rosins, C9 is very effective in reducing water absorption that allows for increased paper smoothness and improved hydrophobic properties.

Other applications: C9 can be used as a water treatment agent with drilling mud additives for oilfield chemicals, or as an asphalt modification agent.

Packaging

25kg paper-plastic compound bags, or according to customer's requirements. 18MT without pallets in a 20'FCL, 26MT without pallets in a 40'FCL, 15MT with pallets in a 20'FCL, or 24MT with pallets in a 40'FCL.

Storage and Handling

Store in a dry and cool place, away from toxic, corrosive, and flammable substances. Product should not be exposed to strong sunlight or rain and should not be transported with sand, soil, scrap metal, coal, glass or other incompatible materials.