

LEWISOL™ 28-M resin is a glycerol ester of rosin modified with maleic anhydride. It is a hard thermoplastic resin that offers excellent solubility, good solvent evaporation and low viscosity in solutions used in formulating RS Nitrocellulose lacquers. These and other properties make LEWISOL™ 28-M resin particularly well suited for use in lacquers, low temperature heat-cured enamels, RS Nitrocellulose based printing inks and grease resistant coatings.

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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Property	Typical Value	Unit	Method ¹
Gardner Color	7		6166, 60% in xylene, 1 cm cell
Gardner Viscosity	I		50% in xylene
Gardner Viscosity	220	cP	50% in xylene
Form	Solid in irregular crushed lumps		
Acid Number (mg KOH/g)	41	mg KOH/g	ASTM D 465
Ring and Ball Softening Point	134	°C	ASTM E 28
Appearance	Amber-colored crystalline solid		
Solubility (in Water)	Negligible		
Description, Base Resin	Maleic Acid modified Glycerol Ester of Gum Rosin		
Specific Gravity	>1		

¹ internal method based upon the specified norm

Applications

Adhesives, Graphic inks, Other coatings, Packaging

Compatibility and Solubility

LEWISOL™ 28-M resin is totally or partially compatible (in proportions useful in practice) with RS Nitrocellulose, rosin-based resins, alkyds, oils and plasticizers used in lacquers, chlorinated rubber, polyvinyl chloride and ester-type waxes. It is partially compatible with ethyl-cellulose and EHEC (Ethyl-Hydroxy-Ethyl-Cellulose). It is incompatible with cellulose acetate.

This resin is soluble in esters, ketones, and aromatic hydrocarbons, partially soluble in aliphatic solvents and butanol, and is insoluble in ethanol and water.

Packaging

LEWISOL™ 28-M is packaged in 25 Kgs multiwall paper bags in lumps. It is manufactured and shipped from the Synthomer Mexico site in Uruapan Michoacán, Mexico

Storage

The resin is provided in lumps which may fuse or block under any of the following conditions: 1) in hot weather climate 2) if stored near steam pipes or other sources of heat; 3) upon prolonged storage; 4) storage in stacks more than three pallets high, or in any combination of these conditions. Storage at temperature above 30°C should be avoided as these conditions will greatly accelerate the fusion of the product. Inside storage in a temperature-controlled area is recommended to minimize product fusion.

Resins are prone to gradual oxidation, some more so than others. The large contact surface the pieces of resin also make them susceptible to gradual oxidation, which can be more advanced in some batches than others. This could result in darkening and/or it could

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have an adverse effect on the solubility of the resin in organic solvents or in its compatibility with polymers. Accordingly, it is recommended that strict control of inventory be observed always, taking care that the oldest material is used first.

LEWISOL™ 28-M will remain within product Sales Specifications for a period of 1 year from production date and if 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 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.