EASTMAN

Technical Data Sheet
Lewisol™ 28-M Resin

Applications

- Adhesives/sealants-b&c
- Carpet construction
- Commerical printing inks
- Film modification
- Paints & coatings
- Polymer modification
- Protective coatings
- Road markings
- Roofing ingredients
- Solder flux
- Tires
- Wax ingredients
- Wire/cable

Product Description

Lewisol™ 28-M resin is a glycero-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.

Typical Properties

Property	Test Method	Typical Value, Units
General		
Acid Number (mg KOH/g)		42
Ring and Ball Softening Point	ASTM E 28	131 °C
Gardner Viscosity[b]		H
Gardner Color[a]		>9
Form		Solid in irregular crushed lumps
Appearance		Amber-colored crystalline solid
Specific Gravity		>1
Solubility in Water		Negligible
Description, Base Resin		Maleic Acid modified Glycerol Ester of Gum Rosin

[a] *50% solids in xylene*
[b] *60% solids in xylene*

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), and 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.

Storage

The large contact surface the pieces of resin present make them susceptible to gradual oxidation, which can be more advanced in some batches than others. This can cause darkening and/or affect the resin's solubility in organic solvents and compatibility with polymers. Therefore, we strongly recommend keeping strict control of inventories at all times, and taking special care to ensure that the oldest material is used first. We suggest a shelf life of 6 months for this product.

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