

# Technical Data Sheet

## Pentalyn™ 755-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

### Key Attributes

- Excellent reactivity to gelling agents
- High viscosity
- Improved mineral oil solubility

### Product Description

Pentalyn™ 755-M resin is a phenolic modified rosin ester with high molecular weight, which offers the high viscosity of many resins of its kind, but with considerably better solubility in mineral oils. This resin also has excellent reactivity to gelling agents, offering high viscosity and excellent solubility in mineral oils. This resin also offers excellent reactivity to aluminum gelling agents, promotes fast anchorage and offers good shine, making it ideal for lithographic or offset inks in Heat-Set and Quick-Set systems and as a modifying resin in flushing, designed for modern high-speed printing equipment.

### Typical Properties

Property	Test Method	Typical Value, Units
<b>General</b>		
Ring and Ball Softening Point	ASTM E 28	157 °C
Color, Gardner <sup>c</sup>		<10
Acid Number (mg KOH/g)		24
Viscosity (Bubble) <sup>a</sup> (50 % in Xylene)		19 sec
Precipitation Temperature <sup>b</sup> in Magie Oil 470 at 10%		60 °C
Appearance		Crystalline Solid
Description, Base Resin		Gum Rosin, phenolic modified pentaerythritol ester

<sup>a</sup>at 25°C

<sup>b</sup>Magie Oil is a trademark of Magie Bros.

<sup>c</sup>50% resins solids in toluene or xylene

### Compatibility and Solubility

Compatible with vegetable oils, tall oil alkyd resins, hydrocarbonaceous resins and other rosin based resins. It has partial solubility in mineral oils, soluble in aromatic solvents (Toluene, Xylene) and partial solubility in aliphatic solvents (Gas-naphtha, gas solvent). This resin is insoluble in alcohols.

### 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. 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 1 year for this product.

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