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## **RESIGUM SH-105**

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### **A HIGHLY STABILIZED AND HYDROGENATED ROSIN ESTER FOR COATINGS AND ADHESIVES**

RESIGUM SH-105 is a hydrogenated rosin ester, derived from pentaerythritol, pale thermoplastic. Like RESIGUM SH-85 resin, which is produced from the same unique oxidation-resistant rosin, RESIGUM SH-105 offers excellent advantages as the tackifier or modifier resin in various adhesives and coating compositions. In these applications, both resins exhibit outstanding resistance to oxidation and decoloration caused by heat and aging. RESIGUM SH-105 has substantially higher softening point compared with RESIGUM SH-85, and is therefore indicated where a harder resin may be desirable.

#### **PRODUCT SPECIFICATIONS:**

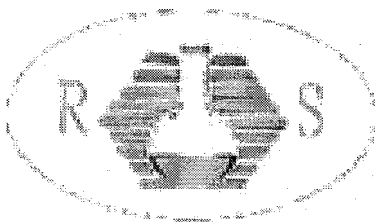
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Acid Number ..... 15 Max.  
Softening Point (Ring & Ball) ..... 90-100°C (194-212°F)  
Color G'33 (50% Toluene) ..... 5 Max.  
Color USDA Scale ..... X  
Gardner-Holdt Viscosity (60% Solids solution in Mineral Spirits) ..... C - F.

#### **TYPICAL PROPERTIES:**

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Acid Number ..... 11 .  
Softening Point (Ring & Ball) ..... 97°C (207°F)  
Color G'33 (50% Toluene) ..... 3 (+).  
Color USDA Scale ..... XB  
Gardner-Holdt Viscosity (60% Solids solution in Mineral Spirits) ..... E (+).



### **COMPATIBILITIES / SOLUBILITIES:**

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Soluble in esters, ketones, higher alcohols, glycol ethers, and aliphatic, aromatic and chlorinated hydrocarbons. Insoluble in ethanol and water.

Compatible at all ratios, or in limited but practically useful proportions, with related resins, waxes, and plasticizers, with natural and synthetic rubbers and ethylcellulose, and with ethylen/vinyl acetate copolymers.

### **TYPICAL USES:**

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Its inherently high oxidation resistance, color stability, tack retention, and other desirable aging characteristics make RESIGUM SH-105 particularly useful in barrier coatings and in solvent-based, emulsion, and hot-melt adhesives.

With E/VA resins and petroleum waxes in hot-melt coatings for paper and paperboard, RESIGUM SH-105 contributes to heat-seal properties by improving the hot tack and bond strength of the coating.

In hot-melt adhesives based on E/VA resins, RESIGUM SH-105 imparts hot tack and heat-sealability, and improves adhesion to substrates.

### **AVAILABLE FORMS:**

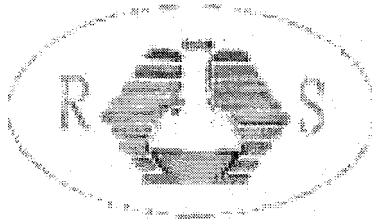
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Solid in galvanized (light-gauge metal) drums (225 kgs. or 496 lbs., net weight), pellets in polyethylene bags or multi-wall paper bags (25 kgs. or 55 lbs., net weight).

### **PRODUCT SAFETY:**

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A Safety Data Sheet, should be obtained prior to use of this product.



#### **STORAGE AND INVENTORY CONTROLS:**

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If this material is stored near heat sources or outside warehouses in hot weather, it may fuse. Oldest material should always be used first. Oxidation will cause darkening and adverse effects on resin properties. Control of inventory must be observed at all times.

#### **FDA STATUS:**

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RESIGUM SH-105 complies with the requirements of the FDA (U.S. Food and Drug Administration) to be used in contact with food packaging and food process operations, in title 21.

This information and suggestions herein are based upon our experience and data believed to be reliable. No warranty or guarantee is made as to accuracy or completeness. It is the user's responsibility to determine the suitability and completeness of this information for the particular use. Since application conditions are beyond our control, we can not guarantee results.