

## ROSIN MODIFIED PHENOLIC RESIN

### Property & Usage

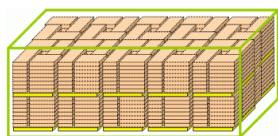
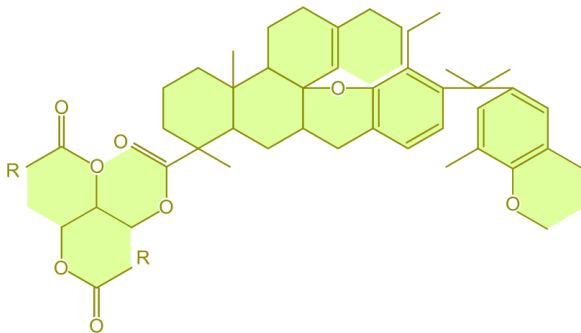
**SumRez™ Rosin Modified Phenolic Resin** is the vacuum treated product of esterification of polyhydric acid with the poly-condensation of rosin, formaldehyde and phenol / bisphenol A / para-tertiary-butyl phenol / para-tertiary-octyl phenol. It dissolves in tar, ester, gum turpentine and similar solvents, partly in petroleum products but not in alcohol solvents. It melts and mixes well with vegetable oils and features high softening point, good hardness, fast drying and high gloss.

Usage in paint, web-offset printing ink and offset printing ink such as paper-roll printing.

### Technical Data Sheet (TDS-3500)

ROSIN MODIFIED PHENOLIC RESIN	R2116	R2118	R2135	R2138
Appearance	pieces	pieces	pieces	pieces
Color (Gardner)	12 max.	12 max.	12 max.	12 max.
Softening point (R&B, deg C)	151-162	157-165	160-175	160-175
Acid value (mgKOH/g)	20 max.	20 max.	25 max.	25 max.
Solubility (1:1 with benzol)	clear	clear	clear	clear

### Package & Notes

<p><b>Package</b> 25kg net kraft polybag 25kg net kraft polybag</p>	<p><b>20'FCL load</b> 17mt (680bags) 16mt (640bags)-pallet</p>	
<p><b>Molecular -</b> <b>R2116 (CAS No. 68152-70-5)</b> (C<sub>15</sub>H<sub>16</sub>O<sub>2</sub>·C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>·CH<sub>2</sub>O·W<sub>99</sub>)<sub>x</sub> <b>R2118 (CAS No. 68152-61-4)</b> (C<sub>15</sub>H<sub>16</sub>O<sub>2</sub>·C<sub>5</sub>H<sub>12</sub>O<sub>4</sub>·CH<sub>2</sub>O·W<sub>99</sub>)<sub>x</sub> <b>R2135 (CAS No. 67700-49-6)</b> (C<sub>10</sub>H<sub>14</sub>O·C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>·CH<sub>2</sub>O·W<sub>99</sub>)<sub>x</sub> <b>R2138 (CAS No. 68457-91-0)</b> (C<sub>14</sub>H<sub>22</sub>O·C<sub>5</sub>H<sub>12</sub>O<sub>4</sub>·CH<sub>2</sub>O·W<sub>99</sub>)<sub>x</sub></p>	<p><b>Structural -</b></p> 	
<p><b>CAS number</b> - 91081-53-7 <b>HS Code</b> - 38069000.90 <b>Standard</b> - Q/HG14-037-80</p>	<p><b>EC# (EINECS#)</b> - polymer <b>Storage</b> In cool place, avoid fire and high temperature.</p>	