

## SYLVATAC™ RAZ 100S Modified Rosin Ester

### PRODUCT DATA SHEET

SYLVATAC RAZ 100S is a modified rosin ester binder designed for use in thermoplastic pavement marking formulations. The low melt viscosity of SYLVATAC RAZ 100S makes the product an excellent choice for spray applied formulations.

#### FEATURES

- Low melt viscosity, stable through pot life
- Good adhesion with glass beads, anti-skid aggregates and the pavement
- Light initial color, stable during application
- Thermal and UV-stability
- Oxidative stability
- Oil & gas resistance
- Produced from a purified pine feedstock and formulated to a controlled specification
- Based on a renewable, non-food, non-animal raw material
- SYLVATAC RAZ 100S modified rosin ester contains 95% USDA certified biobased content

#### POTENTIAL APPLICATION

- Spray- or screed-applied thermoplastic traffic striping
- Thermoplastic pavement marking tape

#### SALES SPECIFICATIONS

Property	Test Method* (Kraton method)	Specification	Typical Value
Softening Point (°C)	ASTM E28-99 (AQCM 003)	97 - 106	100
Color, Gardner, 50wt% in toluene	ASTM D6166 (AQCM 002)	Max. 6	3.5
Acid Value (mg KOH/g)	ASTM D465 (AQCM 001)	Max. 12	9.5

\*Kraton internal methods are based on referenced standard method. Guidance is available upon request.

#### TYPICAL VALUES

Property	Test Method* (Kraton method)	Typical Value	
Glass Transition Temperature (°C)	Internal method (AQCM 218)	48	
Flashpoint (°C)	ASTM D92 (AQCM 007)	>250	
Viscosity (mPa.s)	ASTM D2196 (AQCM 004)	135°C	4100
		150°C	1000
		180°C	175
		200°C	75

\*Kraton internal methods are based on referenced standard method. Guidance is available upon request.

<p><b>SOLUBILITY</b></p>	<p>SYLVATAC™ RAZ 100S modified rosin ester is soluble in:</p> <ul style="list-style-type: none"> <li>- Aromatic / aliphatic solvents like hexane &amp; toluene</li> <li>- Esters and ketones like ethylacetate and acetone</li> <li>- Long chain alcohols like pentanol</li> </ul> <p>Insoluble in smaller alcohols like ethanol and propanol</p>
<p><b>COMPATIBILITY</b></p>	<p>SYLVATAC RAZ 100S can be plasticized with mineral oil, vegetable oil or tall oil esters and is compatible with:</p> <ul style="list-style-type: none"> <li>- Hot melt polyamides</li> <li>- Most commonly used EVA copolymers</li> <li>- Polyethylene waxes</li> <li>- Natural rubber &amp; synthetic rubber (SIS, SBR and SBS)</li> </ul>
<p><b>PACKAGING</b></p>	<p>SYLVATAC RAZ 100S is delivered in pastilles and available in 25 kg paper bags and in 1000 kg bulk bags.</p>
<p><b>STORAGE RECOMMENDATION</b></p>	<p>Storage and transit dry and below 25°C is recommended. To prevent remassing, keep away from direct sun light or other sources of heat. Product stored or transported at higher temperatures should be evaluated for impact on performance before use.</p>



The USDA Certified Biobased Product label is a certification mark of the U.S. Department of Agriculture.

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