

## SYLVACOTE™ 4981 Modified Rosin Ester

### PRODUCT DATA SHEET

SYLVACOTE 4981 is a modified rosin ester binder designed for thermoplastic road marking formulations suitable for hot climates. Excellent glass bead adhesion helps to extend the service life of either liquid-applied traffic striping or pre-formed road markings.

#### FEATURES

- Glass transition temperature suitable for roads in hot climates
- Good adhesion with glass-beads, anti-skid aggregates and the pavement
- Initial and long term retro-reflectivity
- 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
- SYLVACOTE 4981 modified rosin ester contains 98% USDA certified biobased content

#### POTENTIAL APPLICATION

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

#### SALES SPECIFICATIONS

Property	Test Method* (Kraton method)	Specification	Typical Value
Softening Point (°C)	ASTM D6090 (AQCM 003)	110 - 120	115
Color, Gardner, neat	ASTM D1544 (AQCM 002)	8 max	4.0
Acid value (mg KOH/g)	ASTM D465 (AQCM 001)	30 - 40	37

\*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)	67
Flashpoint (°C)	ASTM D92 (AQCM 007)	>250
Viscosity (mPa.s)	ASTM D2196 (AQCM 004)	135°C 30000
		150°C 5500
		180°C 500
		200°C 175
		218°C 95

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

<p><b>SOLUBILITY</b></p>	<p>SYLVACOTE™ 4981 is soluble in:</p> <ul style="list-style-type: none"> <li>- Aromatic / aliphatic solvents e.g., hexane &amp; toluene</li> <li>- Esters and ketones e.g., ethylacetate and acetone</li> <li>- Long chain alcohols e.g., pentanol</li> <li>- Insoluble in alcohols and water</li> </ul> <p>Insoluble in alcohols and water.</p>
<p><b>COMPATIBILITY</b></p>	<p>SYLVACOTE 4981 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>SYLVACOTE 4981 is delivered as pastilles in 50 lb bags.</p>
<p><b>STORAGE RECOMMENDATION</b></p>	<p>Storage and transit dry and below 25°C/77°F 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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