

SYLVACOTE™ 4985 Modified Rosin Ester

PRODUCT DATA SHEET

SYLVACOTE 4985 modified rosin ester binder enables pavement marking formulators to reduce TiO₂ use in thermoplastic traffic striping formulations because binder color remains low during melting and application. Markings can be formulated with SYLVACOTE 4985 to deliver long lasting visibility with reduced cost-in-use.

FEATURES

- Light initial color with good color stability
- Good adhesion with glass-beads, anti-skid aggregates and the pavement
- Initial and long term retro-reflectivity
- Adhesion to damp substrates
- 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 4985 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 E28-99 (AQCM 003)	100 - 110	106
Color, Gardner, 50wt% in toluene	ASTM D6166 (AQCM 002)	Max. 6	2.5
Acid value (mg KOH/g)	ASTM D465 (AQCM 001)	30 - 45	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)	55	
Flashpoint (°C)	ASTM D92 (AQCM 007)	>250	
Viscosity (mPa.s)	ASTM D2196 (AQCM 004)	135°C	9900
		150°C	2400
		180°C	325
		200°C	126

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

<p>SOLUBILITY</p>	<p>SYLVACOTE™ 4985 is soluble in:</p> <ul style="list-style-type: none"> - Aromatic / aliphatic solvents like hexane & toluene - Esters and ketones like ethylacetate and acetone - Long chain alcohols like pentanol <p>Insoluble in alcohols and water.</p>
<p>COMPATIBILITY</p>	<p>SYLVACOTE 4985 can be plasticized with mineral oil, vegetable oil or tall oil esters and is compatible with:</p> <ul style="list-style-type: none"> - Hot melt polyamides - Most commonly used EVA copolymers - Polyethylene waxes - Natural rubber & synthetic rubber (SIS, SBR and SBS)
<p>PACKAGING</p>	<p>SYLVACOTE 4985 is delivered as pastilles in 25 kg bags or 500 and 1000 kg bulk bags.</p>
<p>STORAGE RECOMMENDATION</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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