# KRATON

### SYLVACOTE™ 4101RM Rosin Ester

PRODUCT DATA SHEET

POTENTIAL APPLICATIONS

Spray- or screed-applied

marking

tape

thermoplastic traffic stripingPreformed thermoplastic pavement

Thermoplastic pavement marking

SYLVACOTE 4101RM rosin ester binder enables pavement marking formulators to reduce  $TiO_2$  use in thermoplastic traffic striping formulations, with the binder color remaining low during melting and application. The optimized rheology of SYLVACOTE 4101RM permits higher filler loading in screed/extrusion applied formulations. Therefore, making the product an excellent choice for spray-applied formulations.

#### FEATURES

- Low color through pot life
- Low melt viscosity, stable through pot life
- Good adhesion with glass beads, anti-skid aggregates and the pavement
- Thermal and UV stability
- Oil & gas resistance
- Does not contain microplastic<sup>1</sup>
- SYLVACOTE 4101RM rosin ester contains 98% USDA certified biobased content <sup>1</sup>Material is not a polymer according to REACH definition, therefore not a microplastic under proposed ECHA restriction

### SALES SPECIFICATIONS

Property	Test Method*	Specification	Typical Value
Softening Point (°C)	ASTM E28 (AQCM 003)	100 - 106	102
Color, Gardner, 50wt% in toluene	ASTM D6166 (AQCM 002)	Max. 3	1
Acid Number (mg KOH/g)	ASTM D465 (AQCM 001)	Max. 12	8

 $\ensuremath{^*\text{Kraton}}$  test methods are available upon request

### TYPICAL VALUES

Property	Test Method*	Typica	l Value
Glass Transition Temperature (°C)	Internal method (AQCM 218)	5	1
Flashpoint (°C)	ASTM D92 (AQCM 007)	>260°C	
	ASTM D2196 (AQCM 004)	150°C	1600
Viscosity (mPa·s)		180°C	220
		200°C	85

\*Kraton test methods are available upon request

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SOLUBILITY	<ul> <li>SYLVACOTE<sup>™</sup> 4101RM rosin ester is soluble in:</li> <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> <li>SYLVACOTE 4101RM is insoluble in alcohols and water.</li> </ul>
COMPATIBILITY	<ul> <li>SYLVACOTE 4101RM can be plasticized with mineral oil or tall oil esters and is compatible with most commonly used polymers and waxes: <ul> <li>Ethylene co-polymers like EVA with 18 to 45% VA</li> <li>Acrylics</li> <li>Natural rubber &amp; synthetic rubber (SIS, SBR and SBS)</li> <li>Paraffin, microcrystalline, FT and polyethylene waxes.</li> </ul> </li> </ul>
PACKAGING	SYLVACOTE 4101RM is delivered in pastilles in 25 kg bags or in 1000 kg bulk bags.
STORAGE RECOMMENDATION	It is recommended that SYLVACOTE 4101RM be stored dry and below 25°C. 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.



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

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