

SYLVATAC™ RE 101RM Rosin Ester

PRODUCT DATA SHEET

SYLVATAC RE 101RM rosin ester binder is designed for use in high quality thermoplastic pavement marking formulations. The optimized rheology of SYLVATAC RE 101RM permits higher filler loading in screed/extrusion applied formulations and 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
- Thermal and UV 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
- Does not contain microplastic¹
- SYLVATAC RE 101RM rosin ester contains 98% USDA certified biobased content

POTENTIAL APPLICATIONS

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

¹Material is not a polymer according to REACH definition, therefore not a microplastic under proposed ECHA restriction

SALES SPECIFICATIONS

Property	Test Method (Kraton method*)	Specification	Typical Value
Softening Point (°C)	ASTM E28-99 (AQCM 003)	100 - 106	102
Color, Gardner, 50wt% in toluene	ASTM D6166 (AQCM 002)	Max. 5	3.9
Acid Value (mg KOH/g)	ASTM D465 (AQCM 001)	Max. 12	8

*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)	50	
Flashpoint (°C)	ASTM D92 (AQCM 007)	>260°C	
Viscosity (mPa·s)	ASTM D2196 (AQCM 004)	135°C	7250
		150°C	1000
		180°C	220
		200°C	90

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

<p>SOLUBILITY</p>	<p>SYLVATAC™ RE 101RM 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>SYLVATAC RE 101RM can be plasticized with mineral oil or tall oil esters and is compatible with most commonly used polymers and waxes:</p> <ul style="list-style-type: none"> - Ethylene co-polymers like EVA with 18 to 45 % VA - Acrylics - Natural rubber & synthetic rubber (SIS, SBR and SBS) - Paraffin, microcrystalline, FT and polyethylene waxes.
<p>PACKAGING</p>	<p>SYLVATAC RE 101RM is delivered in pastilles in 25 kg bags or in 1000 kg bulk bags.</p>
<p>STORAGE RECOMMENDATION</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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