



Fostering the Bioeconomy with Advanced Performance

REvolution™ is an innovative technology platform offering a scalable, next-generation solution designed to deliver high-performance biobased tackifiers. Kraton's rosin ester technology offers enhanced color performance and reduced odor characteristics while meeting the industry's sustainability needs. REvolution provides a sustainable alternative to fossil-based products, enabling formulators to achieve a high biobased content and a low carbon footprint.

Low Carbon Footprint

Kraton tackifiers are pine-based products derived from Crude Tall Oil (CTO), a renewable by-product of the paper industry. The CO₂ captured by pine trees during the first phase of the tackifier's life cycle is far greater than the CO₂ emissions resulting from the production processes of our tackifier products. This results in a substantial negative cradle-to-gate carbon emission for Kraton biobased tackifiers.

FEATURES:

- » Near-water white appearance
- » 97% USDA certified biobased content
- » Enables a lower carbon footprint
- » Improved color stability
- » Low odor

TYPICAL MARKETS:

- » Hygiene products
- » Packaging
- » Tapes

APPLICATIONS:

- » Hot-melt adhesives
- » Pressure-sensitive adhesives

Sustainable Chemistry

With up to 97% USDA-certified biobased content, resin developed with REvolution technology has a much lighter initial color while maintaining its excellent adhesion performance and compatibility with a wide range of polymers. Our rosin esters are bio-based and derived from pine trees harvested from responsibly managed forests. The trees are non-genetically modified and do not compete with food crops.



Typical Properties	Test Method	SYLVALITE 9100 	SYLVALITE 2100 	SYLVALITE 2200 	SYLVALITE RE 100L
	Typical Value				
Softening Point (°C)	AQCM 003	105	98.5	99	98
Glass Transition Temperature (°C)	AQCM 218	53	47	52	52
Color, neat (Gardner)	AQCM 002	-	1.4	-	3.7
Color, 1:1 toluene solution (Gardner)	AQCM 002	0.9	-	0.7	-
Color, neat (Hazen)	AQCM 002	163	-	-	-
Acid Number (mg KOH/g)	AQCM 001	7	9	5	10
Viscosity, Brookfield (125°C), mPas	AQCM 004	19680	10240	14823	16190
Viscosity, Brookfield (150°C), mPas	AQCM 004	1435	966	1177	1250
Viscosity, Brookfield (177°C), mPas	AQCM 004	227	180	241	228

Kraton's test methods are available upon request

KRATON CORPORATION

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