

## UNI-REZ™ 138 Polyamide Resin

### PRODUCT DATA SHEET

UNI-REZ 138 polyamide resin is an alcohol soluble type resin of comparatively low viscosity. It has low odor, high gel and water resistance, together with excellent solvent release and blocking resistance. Its high ester tolerance permits addition of small proportions of nitrocellulose without loss of any of these properties.

#### FEATURES:

- Excellent pigment wetting, gloss, and blocking resistance
- Good solvent release and compatibility with nitrocellulose
- Good grease, water, and chemical resistance
- UNI-REZ 138 polyamide resin contains 81% USDA certified biobased content

#### POTENTIAL APPLICATIONS:

- Used for flexographic inks and lacquers
- Low odor and color
- Low viscosity enables high color strength inks
- High compatibility with nitrocellulose allows high heat resistance with good gloss

### SALES SPECIFICATIONS

| Property   | Test Method* | Specification | Typical Value |
|--|--------------|---------------|---------------|
| Softening Point, Ring & Ball, °C                       | AQCM 003A    | 105-115       | 110           |
| Color, 50% in n-Propanol, Gardner                      | AQCM 002C    | Max. 7        | 5             |
| Acid Number  | AQCM 001     | Max. 6        | 2.0           |
| Amine Number   | AQCM 069A    | Max. 7        | 1.6           |
| Solution Viscosity Brookfield, 50% in n-propanol, 25°C | AQCM 004     | 130-150       | 136           |

\*Kraton test methods are available upon request

### TYPICAL VALUES

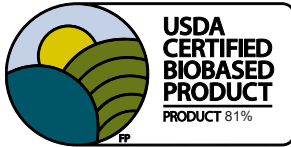
| Property   | Test Method* | Typical Value |
|--|--------------|---------------|
| Solution Viscosity Brookfield, 40% in n-Propanol, 25°C   | AQCM 004     | 54            |
| Zahn cup #2 elution time (sec.), 40% in n-Propanol, 25°C | AQCM 145     | 25            |
| Viscosity, Brookfield, cps 160°C                         | AQCM 004     | 194           |
| Color, 40% in n-Propanol, Gardner                        | AQCM 002A    | 5 +           |

\*Kraton test methods are available upon request

#### Contact us:

Almere (NL): +31 (0)36 54 62 800  
 Savannah (US): + 1 (912) 238-6439  
 Shanghai (CN): + 86 21 6434 8898  
[www.kraton.com](http://www.kraton.com)

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|------------------------------------|--|
| <b>DOT SHIPPING CLASSIFICATION</b> | Not regulated as dangerous goods.  |
| <b>PACKAGING</b>                   | UNI-REZ 138 is a granulated resin, packaged in multiwall paper bags, 50 lbs. and 500Kg big bags are also available.  |
| <b>STORAGE RECOMMENDATION</b>      | To be stored in full, closed containers kept in a cool, dry area. Granulated forms of resin are prone to slow oxidation which may result in darkening and/or have an adverse effect on solubility after prolonged storage. |



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

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**Contact us:**  
 Almere (NL): +31 (0)36 54 62 800  
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 Shanghai (CN): + 86 21 6434 8898  
[www.kraton.com](http://www.kraton.com)