

## UNI-REZ™ 2633 Hot Melt Polyamide Adhesive

### PRODUCT DATA SHEET

UNI-REZ 2633 hot melt polyamide adhesive is a resin based on dimer acid. UNI-REZ 2633 hot melt polyamide adhesive has good low temperature flexibility and adhesion to various plastic substrates.

#### FEATURES:

- Lower application temperature
- Low temperature flexibility
- Excellent adhesion to plastics including plasticized PVC
- Excellent adhesion to galvanized steel
- Non-yellowing
- UNI-REZ 2633 hot melt polyamide adhesive contains 78% USDA certified biobased content

#### POTENTIAL APPLICATIONS:

- Automotive
- Packaging
- Multipurpose Assembly
- Cornerbead

#### SALES SPECIFICATIONS

Property	Test Method*	Specification
Softening Point (°C), Ring & Ball	ASTM E28 (AQCM 003)	127 - 137
Viscosity LVT Brookfield, Spindle #31, cps/mPA.s 190°C	ASTM D3236 (AQCM 004)	4500 - 8000
Color, 40% in n-Butanol, Gardner	AQCM 002	Max. 7

\*Kraton test methods are available upon request

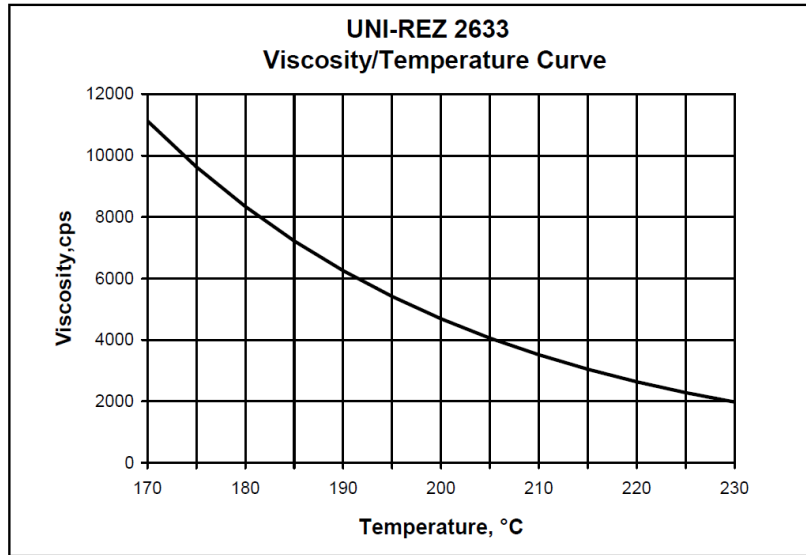
#### TYPICAL VALUES

Property	Test Method*	Typical Value
Acid Value mg KOH/g	AQCM 001	0.8
Amine Value mg KOH/g	AQCM 139	6.5
Color 40% in n-Butanol, Gardner	AQCM 002	4+
Moisture Quintel Moisture Analyzer, %	AQCM 056	0.25
Tensile Strength psi (MPa)	ASTM D1708	250 (1.8)
Elongation %	ASTM D1708	300
Tensile Modulus psi (MPa)	ASTM D638	3100 (21)
Peel Strength pli (N/25mm), plasticized PVC to itself	ASTM D1876	30 (131)
Mandrel Bend Flexibility (1" diameter), pass, °C	ASTM D3111	-40
Open Time seconds, 10 mil film	ASTM D4497	30
Shear Adhesion Failure Temp (SAFT), 1 kg. wt. °C	ASTM D4498	115
Shore A and D Hardness	ASTM D2240-97	A81 / D25
Water Absorption % after 24 hours	ASTM D570	0.7
Water Absorption % after 7 days	ASTM D570	1.9
Pounds per gallon (g/cc), 25°C	ASTM D792	8.1 (0.97)
Flash Point °C, COC	ASTM D92-16	271 (520°F)

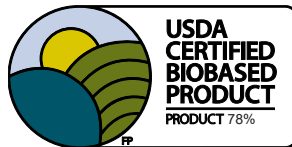
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<b>HOT MELT STABILITY</b>	UNI-REZ™ 2633 hot melt polyamide adhesive may be exposed to air for up to 3 hours at 210°C (410°F) or 9 hours at 190°C (374°F) without skin formation or significant viscosity increase. A nitrogen blanket is essential for longer melt pot residence times.
<b>SOLUBILITY</b>	UNI-REZ 2633 hot melt polyamide adhesive is designed to be used as a hot melt. However, if this polyamide should need to be cut into a solvent for testing, the recommended solvents include n-butanol, n-propanol or a 50/50 blend of isopropyl alcohol and toluene.
<b>PACKAGING</b>	UNI-REZ 2633 hot melt polyamide adhesive is in pellet form, packaged in poly-foil lined multi-wall bags, 40 or 50 lb. net.
<b>STORAGE RECOMMENDATION</b>	This product will slowly absorb moisture from the air, which may cause foaming when the resin is melted and could result in inadequate bonds. Partially used containers should be closed tightly, or the remaining resin transferred into an airtight container and kept in a cool, dry area.



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

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