

UNI-REZ™ TP 101 Hot Melt Polyamide Adhesive

PRODUCT DATA SHEET

UNI-REZ TP 101 hot melt polyamide adhesive is a resin based on dimer acid. UNI-REZ TP 101 hot melt polyamide adhesive has excellent chemical resistance, excellent green strength allowing for fast line speeds.

FEATURES:

- Low softening point
- Excellent flexibility
- Non-stringing
- Good release

POTENTIAL APPLICATIONS:

- Footwear toe-puff
- Non-curing paper air filter construction
- Fabrics

SALES SPECIFICATIONS

Property	Test Method*	Specification
Softening Point (°C), Ring & Ball	ASTM E28 (AOCM 003)	112 - 125
Viscosity LVT Brookfield, Spindle #31, cps/mPA.s 190°C	ASTM D3236 (AOCM 146)	4000 - 5500
Color, 40% in n-Butanol, Gardner	AOCM 002	Max. 7

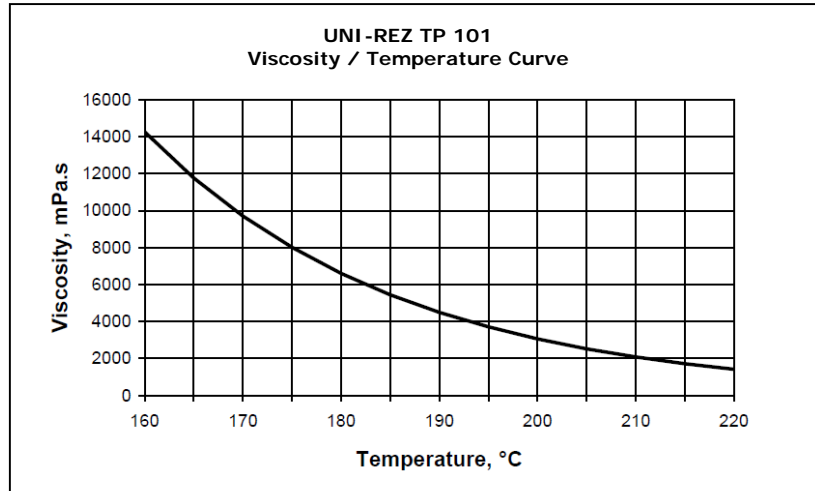
*Kraton test methods are available upon request

TYPICAL VALUES

Property	Test Method*	Typical Value
Acid Value mg KOH/g	AOCM 001	8.2
Amine Value mg KOH/g	AOCM 139	0.6
Color 40% in n-Butanol, Gardner	AOCM 002	5
Moisture Quintel Moisture Analyzer, %	AOCM 056	0.14
Tensile Strength psi (MPa)	ASTM D1708	740 (5.1)
Elongation %	ASTM D1708	350
Tensile Modulus psi (MPa)	ASTM D638	22500 (155)
Mandrel Bend Flexibility (1" diameter), pass, °C	ASTM D3111	-10
Open Time seconds, 10 mil film	ASTM D4497	<5

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HOT MELT STABILITY	UNI-REZ TP 101 hot melt polyamide adhesive may be exposed to air for up to 4 hours at 210°C (410°F) or 8 hours at 190°C (374°F) without skin formation or significant viscosity increase. A nitrogen blanket is essential for longer melt pot residence times.
SOLUBILITY	UNI-REZ TP 101 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.
PACKAGING	UNI-REZ TP 101 hot melt polyamide adhesive is in pellet form, packaged in poly-foil lined multi-wall bags, 40 or 50 lb. net.
STORAGE RECOMMENDATION	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.

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