

UNI-REZ™ 2651 Hot Melt Polyamide Adhesive

PRODUCT DATA SHEET

UNI-REZ 2651 hot melt polyamide adhesive is a resin based on dimer acid. UNI-REZ 2651 hot melt polyamide adhesive has excellent low temperature impact resistance and good adhesion to polyolefin.

FEATURES:

- Low heat reactivation
- Low temperature flexibility
- Water resistance

POTENTIAL APPLICATIONS:

- Heat shrink sleeves
- Automotive wire splice

SALES SPECIFICATIONS

Property	Test Method*	Specification
Softening Point (°C), Ring & Ball	ASTM E28 (AQCM 003)	95 - 105
Viscosity LVT Brookfield, Spindle #31, cps/mPA.s 190°C	ASTM D3236 (AQCM 146)	5000 - 7000
Color, 40% in n-Butanol, Gardner	AQCM 002	Max. 7

*Kraton test methods are available upon request

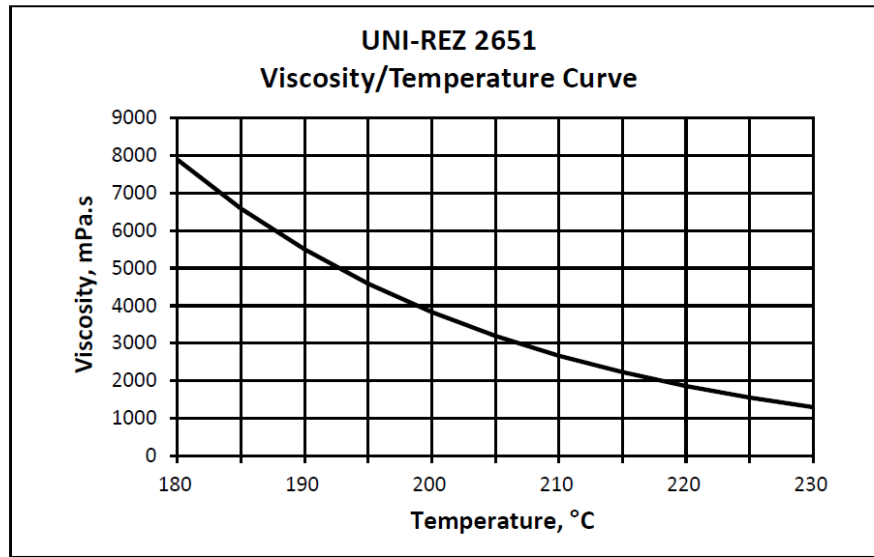
TYPICAL VALUES

Property	Test Method*	Typical Value
Acid Value mg KOH/g	AQCM 001	0.9
Amine Value mg KOH/g	AQCM 139	4.5
Moisture Quintel Moisture Analyzer, %	AQCM 056	0.19
Color 40% in n-Butanol, Gardner	AQCM 002	5
Tensile Strength psi (MPa)	ASTM D1708	380 (2.6)
Elongation %	ASTM D1708	550
Tensile Modulus psi (MPa)	ASTM D638	9500 (65)
Mandrel Bend Flexibility (1" diameter), pass, °C	ASTM D3111	-30
Open Time seconds, 10 mil film	ASTM D4497	5
Shear Adhesion Failure Temp (SAFT), 1 kg. wt. °C	ASTM D4498	85
Shore A and D Hardness	ASTM D2240-97	A86 / D31
Pounds per gallon (g/cc), 25°C	ASTM D792	8.0 (0.96)
Flash Point °C, COC	ASTM D92-16	271 (520°F)

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HOT MELT STABILITY	UNI-REZ 2651 hot melt polyamide adhesive may be exposed to air for up to 3 hours at 210°C (410°F) or 6 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 2651 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 2651 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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