

UNI-REZ™ 2653 Hot Melt Polyamide Adhesive

PRODUCT DATA SHEET

UNI-REZ 2653 hot melt polyamide adhesive is a resin based on dimer acid. UNI-REZ 2653 hot melt polyamide adhesive has excellent low temperature impact resistance and good adhesion to polyolefin.

FEATURES:

- Low heat reactivation
- High flexibility
- Low temperature flexibility

POTENTIAL APPLICATIONS:

- Heat shrink sleeves
- Lamination

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)	8500 – 12500
Color, 40% in n-Butanol, Gardner	AQCM 002	Max. 7

*Kraton test methods are available upon request

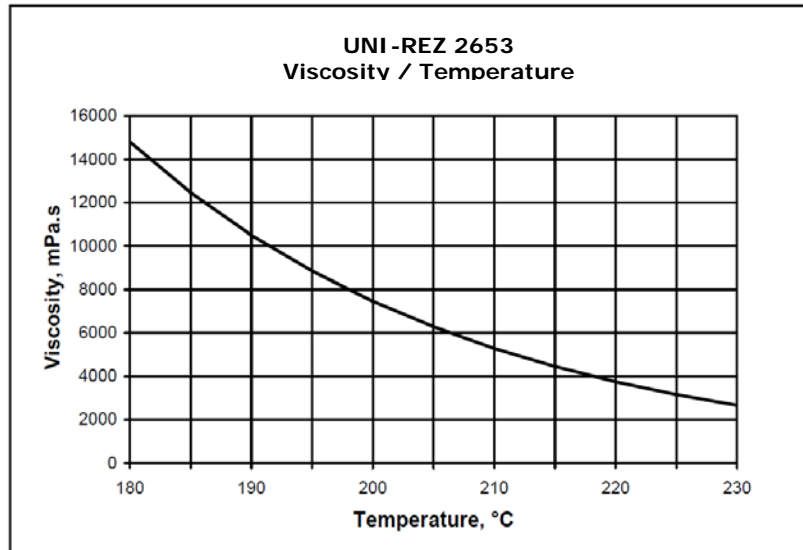
TYPICAL VALUES

Property	Test Method*	Typical Value
Acid Value mg KOH/g	AQCM 001	0.8
Amine Value mg KOH/g	AQCM 139	4.0
Color, 40% in n-Butanol, Gardner	AQCM 002	4
Moisture Quintel Moisture Analyzer, %	AQCM 056	0.15
Tensile Strength psi (MPa)	ASTM D1708	450 (3.1)
Elongation %	ASTM D1708	900
Tensile Modulus psi (MPa)	ASTM D638	10500 (72)
Mandrel Bend Flexibility (1" diameter), pass, °C	ASTM D3111	-30
Open Time seconds, 10 mil film	ASTM D4497	10
Shear Adhesion Failure Temp (SAFT), 1 kg. wt. °C	ASTM D4498	80
Shore A and D Hardness	ASTM D2240-97	A90 / D33
Water Absorption % after 24 hours	ASTM D570	0.3
Water Absorption % after 7 days	ASTM D570	0.7
Pounds per gallon (g/cc), 25°C	ASTM D792	8.0 (9.6)
Flash Point °C, coc	ASTM D92-16	271 (520°F)

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HOT MELT STABILITY	UNI-REZ 2653 hot melt polyamide adhesive may be exposed to air for up to 2 hours at 210°C (410°F) or 4 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 2653 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 2653 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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