

Product information

ANCAMINE[®] 2914UF

Curing Agent

DESCRIPTION

Ancamine[®] 2914UF is an epoxy curing agent designed to achieve an ultra-fast cure speed at room temperature in adhesive applications. The combination of ultra-fast set time and rapid property development allows end users to improve the production throughput.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Pale Yellow liquid		
Colour	≤ 5	Gardner	ASTM D 1544
Viscosity @ 25 °C	300-2,000	mPa.s	Brookfield RVTD, spindle 27
Tg	65	°C	By DSC-Isothermal Cure 75C-2h
Specific Gravity @ 25 °C	1.08		
Amine Value	485-525	mg KOH/g	
Equivalent Wt/{H}	95		
Recommended Use Level	50	phr	With bisphenol-A based epoxy resin (EEW=190)
Gel time (25°C-20g)	8	min	Resin 1 - EEW =190
	5	min	Resin 2 - EEW 190 +TMPTA + Lauryl acrylate (88:7:5)

ADVANTAGES

- Ultra-fast cure speed
- Excellent adhesion
- Excellent mechanical properties
- Low viscosity

APPLICATIONS

- Structural and general purpose adhesive
- Potting and encapsulation

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 2914UF curing agent.

TYPICAL CURE SCHEDULE

Room temperature cure 1 hour-7 days

MECHANICAL PERFORMANCE (CAST PANELS)

Property	Resin 1	Resin 2	Unit	Method
Tensile Strength	9,300	—	psi	ASTM D790
Tensile Modulus	492	—	ksi	
Elongation at Break	2.5	—	%	
Flexural Strength	15,753	—	psi	ASTM D790
Flexural Modulus	427	—	ksi	
Lap Shear Strength	75 mins (RT)			ASTM D1002
Substrate › Cold Roll Steel B952.	705	898	psi	
Glass bead 250 micron75	24 hr (RT)			
	1,167	1,345	psi	ASTM D1002

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