

Aqua Clear Comp A is a polyether triamine with low color, low viscosity and moderate reactivity in epoxy curing. The polyether backbone gives cured resins with relatively high elongation and good toughness and thermal shock resistance. It can be blended with higher viscosity curing agents to reduce viscosity or with cycloaliphatics to improve the elongation of high T_g cured resins.

Typical Physical Properties		Epoxy Formulation Properties	
Brookfield viscosity, cps (77 F)	70	Viscosity, cps (25 C)	1600
Specific gravity, 20/20 C	0.981	Pot life (min) (time to 10,000 cps)	~300
Density, lb/gal, 20 C	8.2	Peak exotherm T, C (F)	38 (100)
Flash point, PMCC, F	196	Time to peak T, min	450
Water, wt%	0.1	T _g C (F)	92 (205)
Total acetylatables, Meq/g	6.8	Tensile strength, psi	9500
Total amine, meq/g	6.4	Elongation, %	9
Primary amine, meq/g	6.1	Flexural Strength, psi	15500
Amine hydrogen eq. wt.	79	Flexural modulus, psi	437000

The resin was a liquid DGEBA resin of approximately 12,000 cps and 188 eew; test panels were cured for 2 hrs @ 80 C (175 F) and 3 hrs @ 125 C (257 F); the T_g was determined by DSC.

Aqua Clear comp A should be mixed thoroughly with the resin. Curing at elevated temperature is desirable to develop the full properties show above. Good properties can be obtained, however, with cures at lower temperatures.

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