PROS TECHNOLOGY

Technical Data Sheet EW 2050

			EW2050
Features			80 deg C trigger cure epoxy
Color			white
Viscosity[Pa・s]*1			70
Specific Gravity			1.3
Overlap Shear Strength [MPa]*2			
	Aluminum 2024		18
	Cold Rolled Steel		
	Stainless Steel 304		
		25℃	12
	Aluminum 2024	80℃	11
		120℃	13
		150℃	2
T-Peel Strength [kN/m]*2			
	Aluminum 1050		1
	Cold Rolled Steel		
Pressure Cooker Test[MPa]*3			
	Cold Rolled Steel	Initial	20
		Aging	25
Volume Resistively [Ω・cm]*4			1×10^{16}
Surface Resistively [Ω]*4			$>1.5 \times 10^{17}$
Dielectric Breakdown Voltage			20
	[kV/mm]＊4		
Dielectric Constant(f=1kHz)*4			3.6
Dissipation Factor(f=1kHz)*4			0.005
Thermal Coefficient of Expansion			7.0×10^{-5} (30-80 ℃)
	[1/℃](0～80℃)		
Young Modulus [GPa]			
Glass Transition Temperature[℃]			109
Optimum Cure [min]*5		120℃	80 deg C- 60 min
		140℃	

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*1 B type viscositymeter （BS、Spindle #7、10rpm @25℃）

*2 Size of Specimen:1.6×25×100mm(Shear)、0.8×25×150mm(Peel)
Area of Overlap:12.5×25mm(Shear),25×100mm(Peel)
Thickness of the bond line:0.1mm
Cure Condition:120℃×60min
Tensile Speed:5mm／min(Shear)、50mm／min(Peel)
Surface Preparation: Aluminum : FPL etch
Other substracts : Solvent wipe

*3 Aging condition:134℃ vapor @3atm ×24H

*4 Tests per JIS K 6911

*5 This is the time when the temperature of adhesive becomes the optimum cure temperature.