



# Technical Data Sheet EW 3020

		<b>Ew3020</b>
Features		80deg C cure epoxy
Color		Black
Viscosity[Pa·s]* 1		20 to 40
Specific Gravity		1.2
Overlap Shear Strength [MPa]*2 Aluminum 2024 Cold Rolled Steel Stainless Steel 304		40
Aluminum 2024		25°C 30 80°C 27 120°C 11 150°C 3
T-Peel Strength [kN/m]*2 Aluminum 1050 Cold Rolled Steel		6
Pressure Cooker Test[MPa]*3 Cold Rolled Steel		Initial 20 Aging 25
Volume Resistivity [ $\Omega \cdot \text{cm}$ ]*4		$2.8 \times 10^{15}$
Surface Resistivity [ $\Omega$ ]*4		$4.0 \times 10^{16}$
Dielectric Breakdown Voltage [kV/mm] * 4		18
Dielectric Constant(f=1kHz)* 4		3.9
Dissipation Factor(f=1kHz)*4		0.006
Thermal Coefficient of Expansion [1/°C](0~80°C)		$6.5 \times 10^{-5}$
Young Modulus [GPa] Glass Transition Temperature[°C]		115
Optimum Cure [min]* 5		120°C 140°C 100deg C - 60 min

\*1 B type viscosimeter (BS, Spindle #7, 10rpm @25°C)

\*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°C×60min



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Tensile Speed: 5mm/min (Shear), 50mm/min (Peel)

Surface Preparation:

Aluminum : FPL etch

Other substrates : Solvent wipe

\*3 Aging condition: 134°C vapor @ 3atm × 24H

\*4 Tests per JIS K 6911

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

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