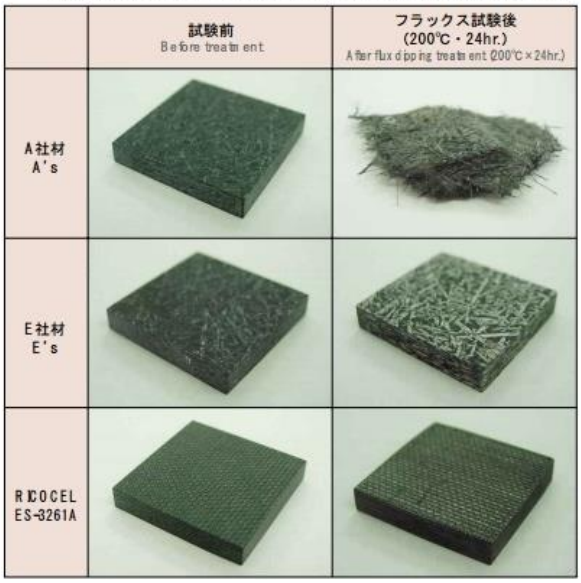
RICOCEL® ES-3261A

Product of Risho Japan

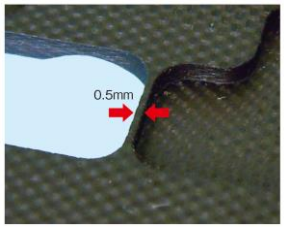
RICOCEL is the registered trade mark of the black colored epoxy glass material ES-3261A developed and produced by Risho Japan. The material is extremely durable at high temperature and against flux chemicals of soldering process. It is widely used as soldering pallets and carriers. According to the various tests, RICOCEL material has been proved to have excellent dimensional stability, very low water absorption and weight loss. Also the machining workability is superior compared to other material on the market. RICOCEL material is supplied in a master sheet format of 2040 mm x 1200 mm with approximate 10 mm production margins. The material is available in stock from the thicknesses of 3.0 mm to 14.0 mm.

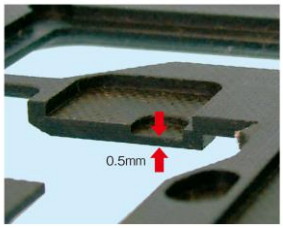
Appearance before /and after flux dipping treatment(200℃×24hr.)



Main features

- **Complete antistatic material**
- **Excellent for lead free soldering**
- **Extremely long cycle life**
- **Very fine milling thickness down to 0.5 mm**
- **Even +/- 0.1 mm tolerance in all thickness**
- **Various thickness available in stock**





Technical data of ES-3261A (stand Nov. 2019)

Properties	Unit, Condition	Value
Surface Resistance / Oberflächenwiderstand	**Ohm**	**1 x 10^7**
Specific Gravity / Dichte	**g/cm^3**	**1,95**
Bending Strength / Biegefestigkeit	**Mpa, 23°C**	**550**
Flexural Modulus / Elastizitätsmodul	**Gpa, 23°C**	**28**
Thermal Expansion / Wärmeausdehnungskoeffizient	**ppm/K, 50°C->250°C**	**9**
Max. Operating Temperature / Grenztemperatur	**°C**	**350**
Standard Operating Temperature/ Dauerbetriebstemperatur	**°C**	**300**
Flatness Tolerance / Ebenheitstoleranz	**mm, 300mm x 300mm**	**± 0,15**
Parallelism / Planparallelität	**mm**	**± 0,08**
Thickness Tolerance / Dickentoleranz	**mm**	**± 0,10**
Water Absorption / Wasseraufnahme	**%**	**0,02**
Thermal Conductivity / Wärmeleitzahl	**W/mK**	**0,38**
Standard Sheet Format / Standard Tafelformat	**mm**	**2040 x 1200 (+ 10 / -0)**
Available Thickness / Materialdicke	**mm**	**3, 4, 5, 6, 8, 10, 12, 14**

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