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Technical Data Sheet
Residue-less Flux
for Area Laser Applications
RLFP008

株式会社ニホンゲンマ
NIHON GENMA MFG.CO.,LTD.

Properties

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	Value	Method
Viscosity (Pa·s)	13	Rheometer (NETZSCH, Kinexus)
Thixotropic Index	0.43	Rheometer (NETZSCH, Kinexus)
pH (1g, 30mL IPA)	4.25	Titration
Acid Value (mgKOH/g)	23.85	JIS 3197 8.1.4.1.1
Halide Contents (wt%)	Not added	JIS 3197 8.1.4.2.1
Tackiness (gf)	130	JIS Z 3284-3 4.5

Residue

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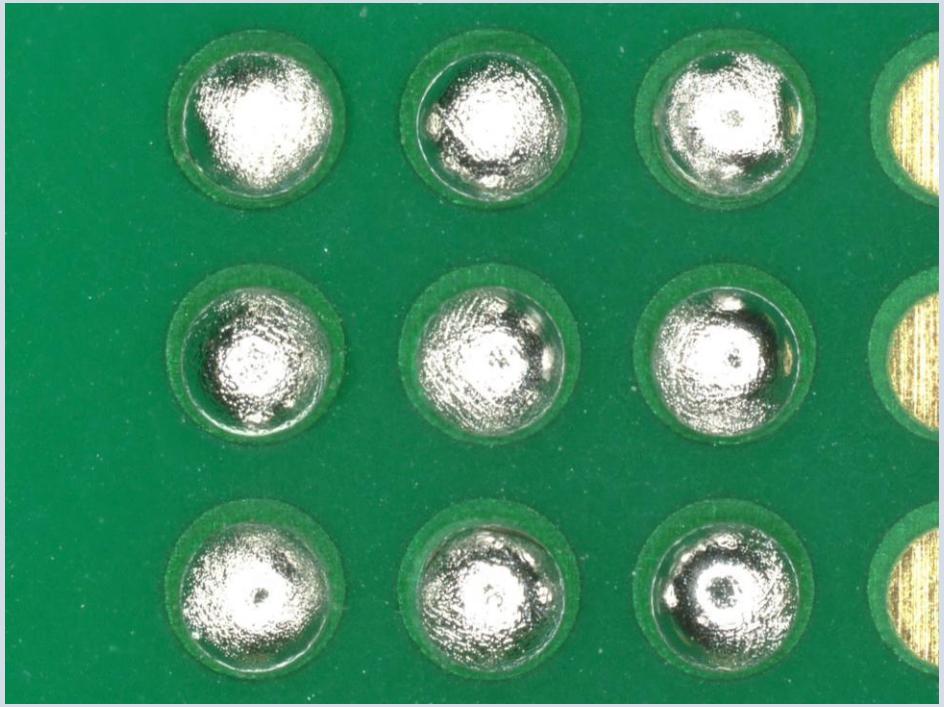
Test Conditions

【Mask】Aperture size ϕ 0.3mm t30μm
【Substrate】Pad size ϕ 0.3mm ENIG
【Component】SAC305 Solder Ball ϕ 0.3mm
【Heating】Size 50mm x 50mm, Power 2000W, Time 2sec
【Device】Printer (YAMAHA, YCP10), Area Laser (LASERSSEL, LSR 3000)

Test Results



- **Achieving low residue with short-time heating by an area laser.**

Wettability

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Test Conditions

【Mask】Aperture size ϕ 0.3mm t30μm
【Substrate】Pad size ϕ 0.3mm ENIG
【Component】SAC305 Solder Ball ϕ 0.3mm
【Heating】Size 50mm x 50mm, Power 2000W, Time 2sec
【Device】Printer (YAMAHA, YCP10), Area Laser (LASERSSEL, LSR 3000)

Test Results

- **Good wettability is achieved by short-time heating using an area laser.**

Continuous Printing Evaluation——Viscosity & TI

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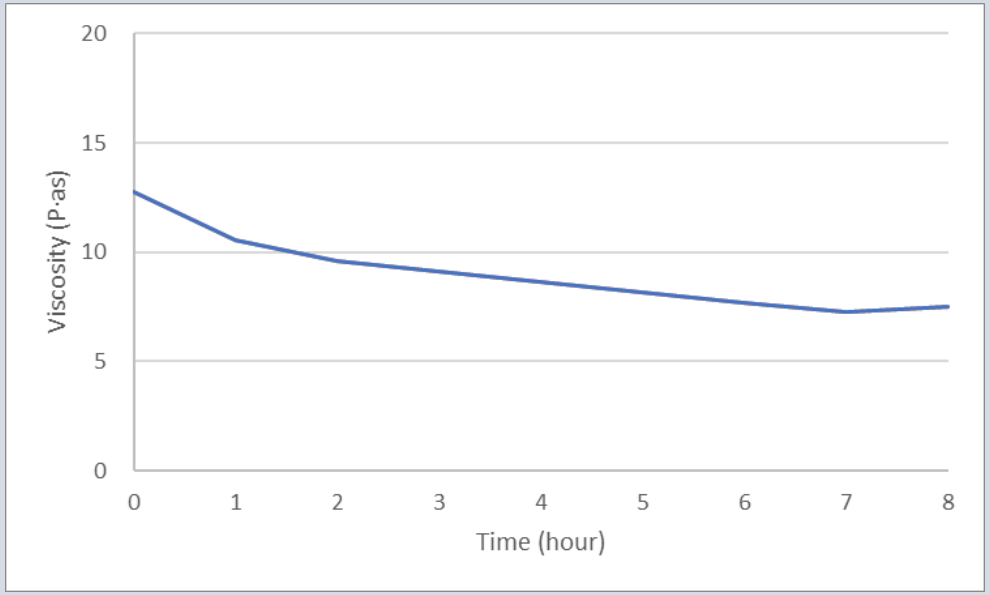
Test Conditions

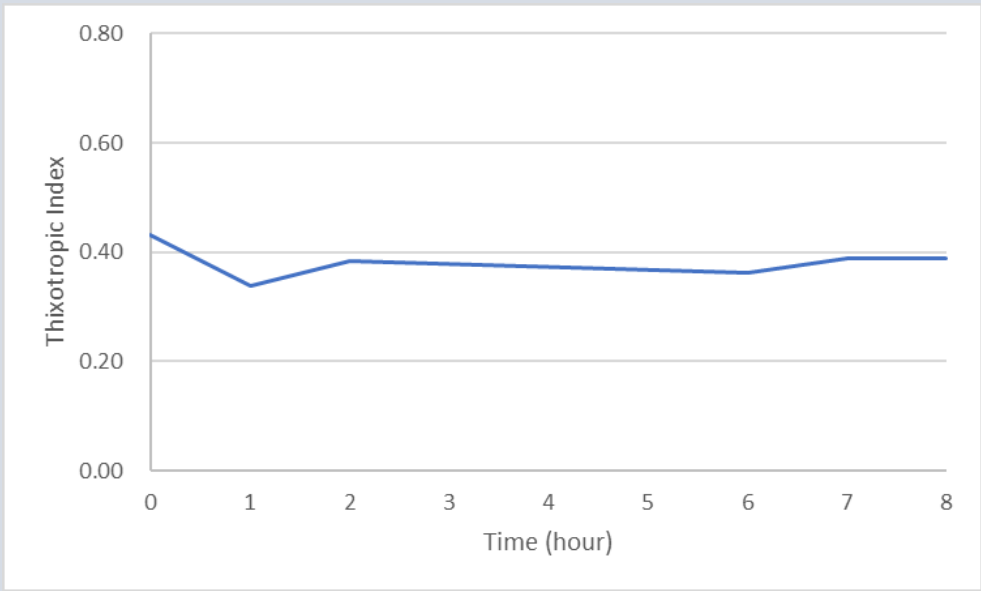
【Printing】 Speed: 15mm/s, Interval: 10sec
【Environment Conditions】 Temperature 24°C, Humidity 35%
【Device】 Printer (Hitachi, HIGRAD HG-610), Rheometer (NETZSCH, Kinexus)

Test Results

Viscosity



TI



- **Stable viscosity and TI over 8 hours of continuous printing.**

Tackiness

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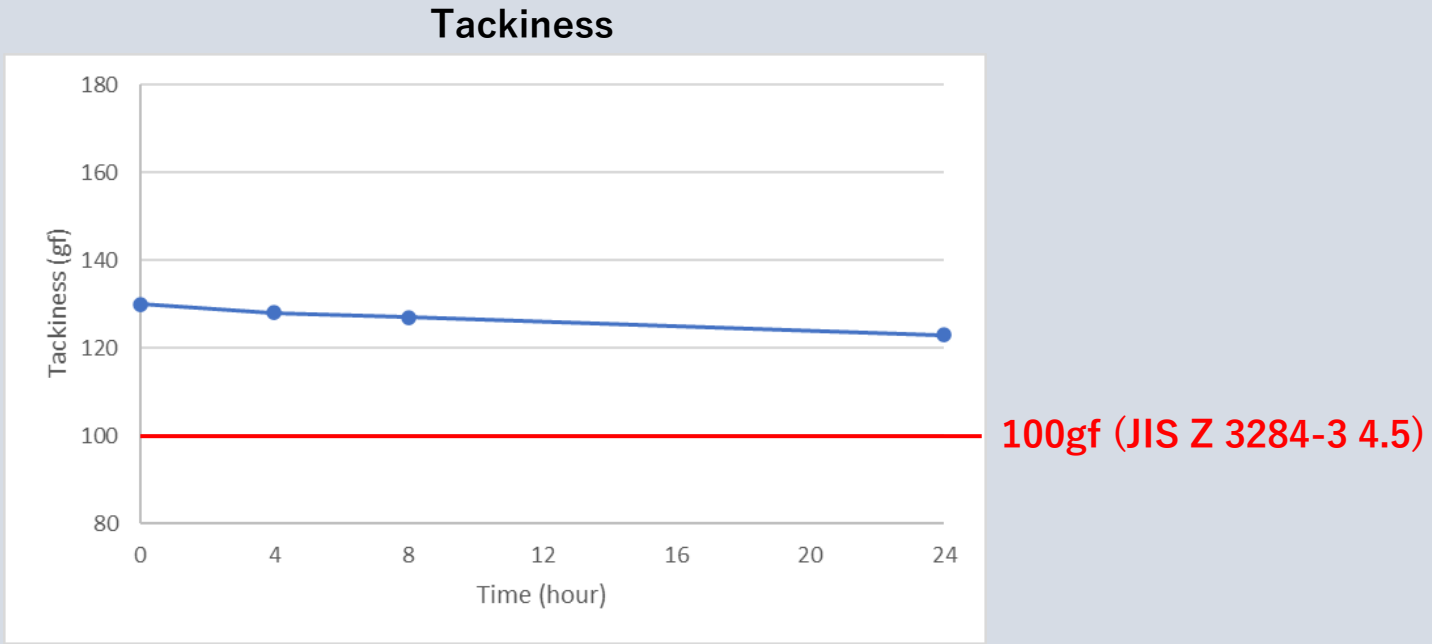
Test Conditions

【Mask 】 Aperture ϕ6.5mm t200μm
【Probe Diameter】 ϕ5.1mm 【Maintaining Pressure】 50gf
【Pressure Time】 0.2sec 【Permeation Rate】 2.0mm/sec 【Retraction Speed】 10mm/sec
【Device】 Tacking Tester (Malcom, TK-1S)

Test Results



- **Tackiness remains above 100 gf for 24 hours.**

Caution in use

① Do not use this product for other purposes except soldering.

② Do not touch this product directly. In case of skin contact, wipe with tissue or cloth with alcohol or appropriate solvent then wash by soap water.

③ Do not inhale fume generated from this product. Adequate ventilation is required.

④ Recommended storage condition and quality guarantee period are as follows:

Keep refrigerated (0-10℃) : 3 months from manufacturing date.

⑤ When it backs to room temperature (24℃), avoid to heat too rapidly.
Keep it at room temperature and wait for 1-2 hours. Do not use it when it is refrigerated.

⑥ Chlorinated or fluorinated solvents or other type of solvents will cause degrading of solderability. Please be careful in cleaning of supplying tools.

⑦ Please keep it away from any fire source in working place or store room.