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SPSR-900 SERIES LIQUID PHOTO-IMAGEABLE RESIST

This solder resist is ;

- * two component type, main component SPSR-900 and additive SH-250B
- * liquid photo-imageable resist for fine solder pattern
- * developed by alkaline solution and post-cured by heat

This solder resist has such properties as ;

(Tested in accordance with IPC-SM-840B)

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|--|---|
| ① color | green, blue, golden yellow, red, white |
| ② mixing ratio | main component 750g to additive 250g |
| ③ non-volatile content | 80wt% |
| ④ viscosity | 170 ± 20ps |
| (viscotester VT-04) | |
| ⑤ machinability | acceptable |
| Item 3.5.3. | |
| ⑥ hardness, pencil | 8H and above |
| (JIS-D-0202) | |
| ⑦ adhesion | 100/100 passed crosscut hatch test |
| (JIS-D-0202) | |
| ⑧ heat resistance | passed three-times floating at 260°C/10sec. |
| (soldering bath) | |
| ⑨ insulation resistance | 1 × 10 ¹³ Ω ; as received |
| IPC-SM-840B at 100V | 1 × 10 ¹² Ω ; class I 35°C, 90%RH, 4 days |
| 5 × 10 ⁸ Ω and above | 1 × 10 ¹² Ω ; class II 50°C, 90%RH, 7 days |
| | 1 × 10 ¹² Ω ; class III 25~65°C, 90%RH, 7 days |
| ⑩ dielectric constant | 2.8 ; as received |
| (at 1MHZ) | 3.5 ; 55°C 95%RH 96 HRS. |
| ⑪ dielectric loss/Tan δ | 0.025 ; as received |
| (at 1MHZ) | 0.032 ; 55°C 95%RH 96 HRS. |
| ⑫ dielectric strength | 2.0KV/mil |
| ⑬ solvent resistance | passed for 60min. immersion at room temp. |
| (isopropyl alcohol) | |
| Item 3.6.1. | |
| ⑭ chemical resistance | passed for 30min. immersion at room temp. |
| 10% HCl, 10%H ₂ SO ₄ , 3% NaOH | |
| ⑮ immersion in boiling water | passed |
| for 2 hours | |

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| ⑩ gold-plating | electro-gold plating
40°C, 1.0 A/dm ² , 5min
electroless Ni-Au plating
Ni-3 μ m, Au 0.05 μ m |
| ⑪ pressure cooker test
(JIS-D-0202) | passed at 121°C, 2atm, 4Hours |
| ⑫ flammability
(UL approved) | UL 94V-0 |
| ⑬ thermal shock
Item 3.9.3. | passed
-65°C, 15min~125°C, 15min -100cycles |
| ⑭ shelf life | 3 months after delivered stored in 20°C |

< Note > typical property values, not to be construed as specification.