

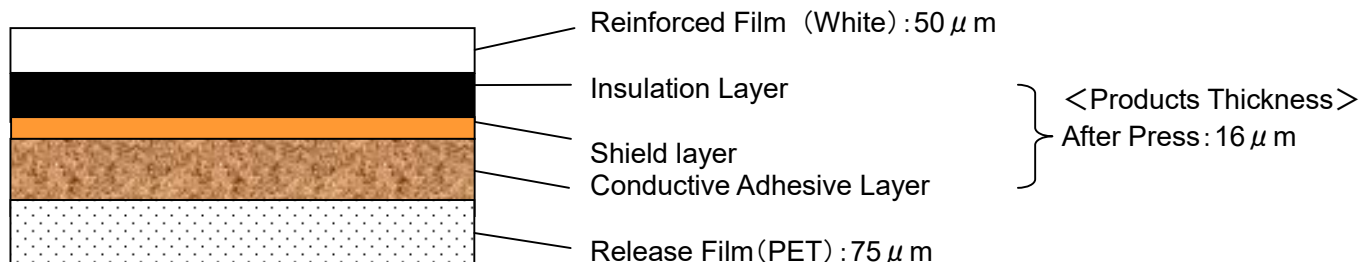
LIOELM®TSS500Z-S-2

【Characteristics】

This Electromagnetic Wave Shield Film is designed for high-speed transmission circuit. TSS500Z-S-2 has excellent flexibility / excellent electrical conductivity / excellent humidity resistance.

TSS500Z-S-2 is advanced EMI shield film for next generation high-speed transmission devices. Our product offers transmission loss decrease.

【Structure】



【Technical Data】

Product name	TSS500Z-S-2
Reinforced film	50um PET
Insulation layer	Modified ester resin based 7 μ m \pm 2 μ m
Shield layer	Metal layer 3 μ m
Conductive layer	Modified urethane resin based 6 μ m \pm 2 μ m
Release film	75um PET
Thickness of Shield layer (Before press)	17um \pm 5 μ m
Thickness of Shield layer (After press)	16um \pm 4 μ m
Shielding Effect (Coaxial tube method)	More than 82dB (1GHz)
Surface resistance	Less than 50m Ω / \square
Peel Strength (PI)	More than 3N/cm

Above data is our self-conducted test result but not our guaranteed performance.

<Peel strength measurement conditions>

1. Structure: Kapton200EN/(Conductive layer Side)TSS(Insulation layer Side)/Adhesive sheet/Kapton200EN
2. Laminating conditions:
Laminate 90°C→Press 170°C-2MPa-30min
3. Peel speed : 50mm/min
4. Peel angle:90°

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【How to apply (Quick Press)】

- 1) Release Protect film from conductive layer
- 2) Laminating on FPC (Tentative Fastening)
- 3) Heat Press on Insulation layer side with Transfer film under vacuum condition more than 3 min to avoid void.
- 4) Release Transfer film
- 5) Post Cure

【How to apply (Only Press)】

- 1) Release Protect film from conductive layer
- 2) Laminating on FPC with roll laminator(Tentative Fastening)
- 3) Heat Press on Insulation layer side with Transfer film Over 30 min.
Vacuum press is recommended to avoid void.
- 4) Release Transfer film

【Recommended Press Condition】

	Press condition			Post Cure	
	Temp	Press	Time	Temp	Time
Quick Press & PostCure	170±10℃	2~3MPa	More than 3min	160±10℃	More than 1h
Only Press	170±10℃	2~3MPa	More than 60min	-	-

【Notice of Storage Condition】

- TSS500Z-S-2 should be stored under 10℃ / 70%RH.
- Please leave the shield film stored under refrigerating condition at room temperature for adequate time
- Recommended restoration time is more than 7 hours
- If it takes time from cutting process to heat process, please keep them under a refrigerating storage