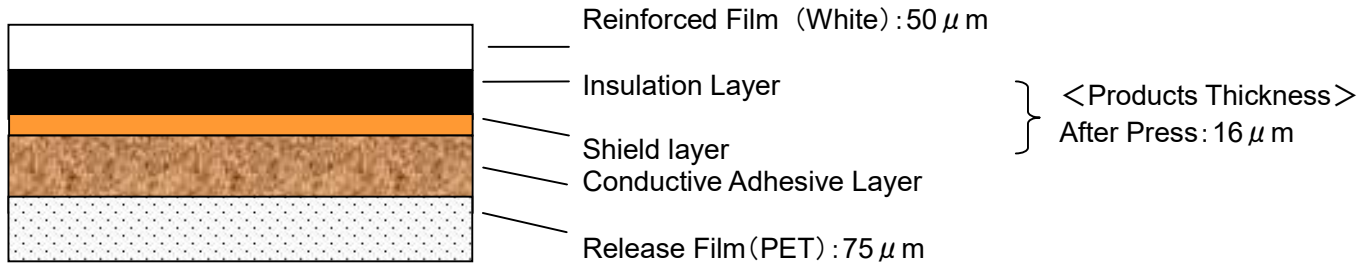


# LIOELM TSS™500Z-S-2

**【Characteristics】**

This Electromagnetic Wave Shield Film is designed for high-speed transmission circuit. TSS500Z-S has excellent flexibility / excellent electrical conductivity / excellent humidity resistance.  
TSS500Z-S 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
Reinforced film	50um PET
Shield layer	Urethane based resin
Release film	75um PET
Thickness of Shield layer	16um (after press)
Shielding Effect	More than 50dB (1GHz)
Surface resistance	Less than 30m Ω /□
Peel Strength (PI)	More than 3N/cm
UL94 FlameClass	VTM-0 *TSS500Z-S/kapton50H/TSS500Z-S

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°

**【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

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**【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°C	2~3MPa	More than 3min	160±10°C	More than 1h
Only Press	170±10°C	2~3MPa	More than 60min	-	-

**【Notice of Storage Condition】**

- TSS500Z-S should be stored under 10°C / 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