

who can partner with a global leader in
electronic materials for membrane touch switch
to improve quality and consistency?

you can.

working for you.

Solutions. Tailor-Made.™

The Membrane Touch Switch (MTS) Value Package and Performance Materials are premier ranges of low-temperature silver, carbon and UV-curable dielectric inks which are optimized for membrane touch switch manufacturing. Utilizing fully compatible solutions, these portfolios consolidate technical, commercial and purchasing efforts with Sun Chemical's proprietary technology and proven expertise.

MTS Value Package

Silver Inks:

- AST6310 – A general purpose silver ink with outstanding adhesion, flexibility and resolution
- AST6300 – An economical, general purpose silver ink with high flexibility

Graphite Inks:

- GST4300 – A highly flexible graphite ink with excellent adhesion

Dielectric Inks:

- DSU4605G – A green UV dielectric ink which exhibits excellent flexibility and environmental stability

MTS Performance Materials

Silver Inks:

- AST6010 – A silver ink with the highest conductivity in its class and excellent adhesion
- AST6140 – A silver ink with high conductivity and thick deposit for solvent and temperature sensitive substrates
- AST6025 – A high conductivity silver ink with <100 microns fine line printability, very low resistance and adhesion to ITO

Membrane Touch Switch Value Package

Product Name	AST6310	AST6300	GST4300	DSU4605G
Application Method	Screen	Screen	Screen	Screen
Sheet Resistivity ($\Omega/\square/\text{mil}$)	<0.015	<0.015	<20	>10 ¹³ Ω/mil
Cure Schedule	100-200°C 2-30 min	100-200°C 2-30 min	100-150°C 5-30 min	UV curable 500-800 mJ/cm ²
Screen Mesh (threads/inch)	230-420	158-255	230-420	196-305
Substrates	PET, TCO, PI	PET, TCO, PI	PET, TCO, PI	Print Treated PET
Applications	Membrane Touch Switches, Printed Antennae, Touch Screens and more	Membrane Touch Switches, Capacitive Switches	Membrane Touch Switches, Printed Resistors	Membrane Touch Switches, Capacitive Switches, Crossover Dielectrics
Shelf Life (Months)	12	12	12	12

Membrane Touch Switch Performance Materials

Product Name	AST6010	AST6140	AST6025
Application Method	Screen	Screen	Screen
Sheet Resistivity ($\Omega/\square/\text{mil}$)	<0.011	<0.012	<0.010
Cure Schedule	120-200°C 5-30 min	60-150°C 5-30 min	120-200°C 10-30 min
Screen Mesh (threads/inch)	255-355	255-355	290-420 (SS)
Substrates	PET, TCO, PI	PI, PET, TCO, PVC, PC	PET, TCO, PI, Glass, Metals
Applications	Printed Antennae, High Conductivity Circuitry	Printed Antennae, High Conductivity Circuitry	Printed Antennae, Touch Panels, High Conductivity and Fine Circuitry
Shelf Life (Months)	3	6	12

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Sun Chemical Electronic Materials

USA +1 513 830 8653
 Europe +49 172 847 6438
 Asia +86 189 1316 1558

ElectronicMaterials@sunchemical.com