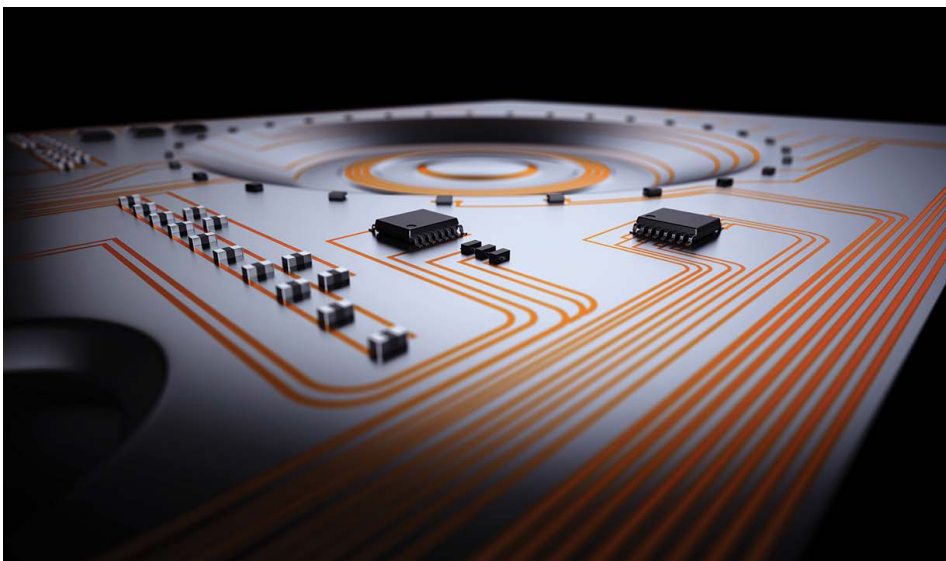


Make Products Lighter, Simpler, and More Beautiful with Micromax™ In-Mold Electronic Technology for Touch-Control Switches and Lights



Micromax™ materials allow product designers more creative freedom than ever before because they are the only in-mold electronic (IME) inks designed to withstand the intense stretching and heating of thermoforming and injection molding.

Nearly any moldable part can now incorporate touch switches and connect lighting and heating through printed technology. Use of Micromax™ innovative IME inks means automotive and aerospace components, domestic appliances, and consumer electronics can be simpler, more beautiful, and weigh less.



Innovating with Conductive, Stretchable Electronic Inks

The Micromax™ complete system of conductive and dielectric materials can be used to construct ergonomically-friendly control surfaces with 3D circuits that feature capacitive switches and LED lighting for applications such as touch-panel control interfaces in automobiles and appliances.

Unique Micromax™ IME inks enable touch control, heating capabilities, and lighting functions to be directly printed on plastic sheets which are then thermoformed and injection molded, embedding electronic circuitry in plastic.

With no buttons and no wires, touch switches designed with Micromax™ IME inks eliminate the bulk of traditional switches, enhance eye-appeal, and offer reliable performance for the life of the product.

Optimize Cost and Cut Assembly Time

By removing bulky physical switches and eliminating part assembly process steps, significant cost and weight savings can be achieved. Touch switches designed with Micromax™ IME inks:

- are 70% lighter
- cost up to 30% less
- cut assembly time by 40%

Assembly efficiency is achieved with a single-connection “snap-on” process and there’s no need for costly re-tooling.

Micromax™ IME Ink Product Selector

IME Type	Product	Function	Key Properties
Silver	ME102	Heaters, antennas, RFID	<ul style="list-style-type: none">• Extra-high conductivity• Improved thermoformability
Carbon	ME201	Carbon overprint	<ul style="list-style-type: none">• Formable• Compatible with PC
Silver	ME602	Conductor for signal transfer	<ul style="list-style-type: none">• Formable• Compatible with PC
Silver	ME603	Conductor for signal transfer	<ul style="list-style-type: none">• Optimized formability• Compatible with PC
Silver	ME604	Ag-based conductor	<ul style="list-style-type: none">• Superior thermoformability
Silver	ME614	Ag-based conductor for fine line applications	<ul style="list-style-type: none">• Excellent thermoformability• Laser structurable
Encapsulant	ME772	Clear, formable overprint	<ul style="list-style-type: none">• Protective layer for circuitry
Dielectric	ME778	Crossover	<ul style="list-style-type: none">• Optimized formability
Dielectric	ME779	Crossover	<ul style="list-style-type: none">• Optimized insulation
Encapsulant	ME780	Protective barrier	<ul style="list-style-type: none">• Formable insulator
Transparent conductor	ME801	For LED/light transmission	<ul style="list-style-type: none">• Transparent, conductive, formable
Silver glue	ME902	Component attach	<ul style="list-style-type: none">• Formable conductive adhesive

More Micromax™ Materials to Advance Your Products

From automotive and telecommunication applications to consumer products and health devices, Micromax™ is a leading global supplier of printable, stretchable, and moldable electronics materials.

With a 60-year history of innovating for our customers, Micromax™ materials are relied upon every day in satellite communications, automotive electronics, guidance systems, aerospace, homeland security, telecommunications, consumer electronics, industrial, and military applications.

Micromax™ materials allow designers to push the boundaries of design and scale production quickly with:

- Thick film and ceramic hybrid circuit materials
- Low-temperature co-fired ceramic (LTCC) materials
- Passive component materials
- Printed electronic materials

Plus, Micromax™ provides high reliability across different substrates, operating environments, temperatures, and metallizations.

For more information about in-mold electronic technology inks, contact your Micromax™ representative.

Micromax™ is a leading brand of printable, stretchable, and moldable functional thick film inks, pastes and ceramic tapes. Micromax™ brand products are utilized for circuitry, interconnection and packaging of electronic devices in automotive, passive components, telecom, consumer electronics, healthcare and military applications featuring properties such as enhanced circuit density, improved thermal management, higher reliability and other critical functionality. Micromax™ represents over 60 years of experience in the development, manufacture and sale of specialized electronic materials, and offers leading global customer support and product quality and consistency.

<https://www.mobility-materials.com/brands/micromax.html>



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