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PPG Introduces PPG TESLIN EMI/RF Shielding Material for Electronic Security Applications, Electronic Passports

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Flexible, moldable, durable substrate offers customizable, low-cost electrical shielding

PITTSBURGH--(BUSINESS WIRE)-- PPG (NYSE:PPG) today announced the introduction of PPG TESLIN® EMI/RF (electromagnetic interference/radio-frequency) shielding material, which is a flexible, moldable and affordable shielding solution that can be customized to provide specific shielding functionality and performance.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20190605005525/en/>



PPG has introduced PPG TESLIN® EMI/RF (electromagnetic interference/radio-frequency) shielding material, a flexible, moldable and affordable shielding solution. Coated with PPG-manufactured conductive inks, PPG Teslin EMI/RF shielding material can be customized to meet specific requirements for product functionality and shielding effectiveness. (Photo: Business Wire)

increasing production costs.

“The addition of RF-shielding capability to standard PPG *Teslin* substrate creates an even higher level of value and functionality for e-passports,” said Pierre Scaglia, PPG global segment manager, secure credentials, *Teslin* substrate products. “Beyond secure credentials, PPG *Teslin* EMI/RF shielding material also has the versatility to be used for many other products and materials that require RF protection.”

Coated with PPG-manufactured conductive inks, PPG *Teslin* EMI/RF shielding material can be customized to meet specific requirements for product functionality and shielding effectiveness. For example, ink coverage can be adjusted from full to partial and can be grid patterned or fully coated.

The material comes in multiple grade and thickness options and is offered in sheets, master rolls or slit rolls. Like PPG *Teslin* substrate, the EMI/RF shielding material is compatible with a wide range of finishing techniques. These include folding, molding, perforating, stitching and gluing without altering the material's shielding effectiveness.

“The world is becoming increasingly security-conscious, from large corporations and governments to individual citizens trying to protect data, sensitive information and personal identities,” said Greg Terchick, PPG global business director, *Teslin* substrate products. “By combining the performance features of PPG *Teslin* substrate and PPG conductive inks, we have created a new way to help existing e-passport issuers combat fraud without requiring any significant additional investment in materials, printing or production processes.”

PPG will demonstrate the PPG *Teslin* EMI/RF shielding material in booth S23 at Security Document World (SDW), which will be held June 11-13 at the ExCel Convention Center in London. A PPG representative also will give a presentation on the new material on June 13 at 11:10 a.m. in the SDW theatre.

Part of PPG's specialty coatings and materials product portfolio, PPG *Teslin* substrate is a durable, secure and highly printable synthetic paper that

Patent pending with the U.S. Patent and Trademark Office, PPG *Teslin* EMI/RF shielding material is designed for electronic applications that require shielding to function properly, protect RF transponders from illegitimate reading or writing, or provide a durable grounding path. Common examples include pouches for credit cards, cell phones and electronic toll passes, grounding tapes, circuit boards, safe rooms, actuated chips, antennas and electronic devices.

The new material is also gaining interest globally as a shielding solution for advanced electronic passports (e-passports) because of its ability to protect against fraudulent access to travelers' personal data, thereby increasing document security.

More than 75 nations use PPG *Teslin* substrate as a key component in their e-passport designs. The material has been trusted for nearly 15 years to secure and protect embedded electronics in passport inlays and electronic covers due to its bonding strength and inherent flexibility and tamper-resistance. By transitioning from PPG *Teslin* substrate to PPG *Teslin* EMI/RF shielding material, government passport designers can create documents that offer citizens an added layer of protection against data skimming without significantly

excels for laminated print projects and other applications demanding a tough, high-performance material. Manufactured by PPG in Barberton, Ohio, PPG *Teslin* substrate also provides a variety of benefits for credential and identity documents. These include high-definition color photos, laser-engraving capabilities, built-in tamper evidence and flexible production and issuance options.

To learn more about PPG *Teslin* EMI/RF shielding material, visit teslin.com/RFshield.

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At PPG (NYSE:PPG), we work every day to develop and deliver the paints, coatings and materials that our customers have trusted for more than 135 years. Through dedication and creativity, we solve our customers' biggest challenges, collaborating closely to find the right path forward. With headquarters in Pittsburgh, we operate and innovate in more than 70 countries and reported net sales of \$15.4 billion in 2018. We serve customers in construction, consumer products, industrial and transportation markets and aftermarkets. To learn more, visit www.ppg.com.

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