



## EMR PROTECT

Shielding Solutions for  
Electromagnetic Compatibility  
(EMC)

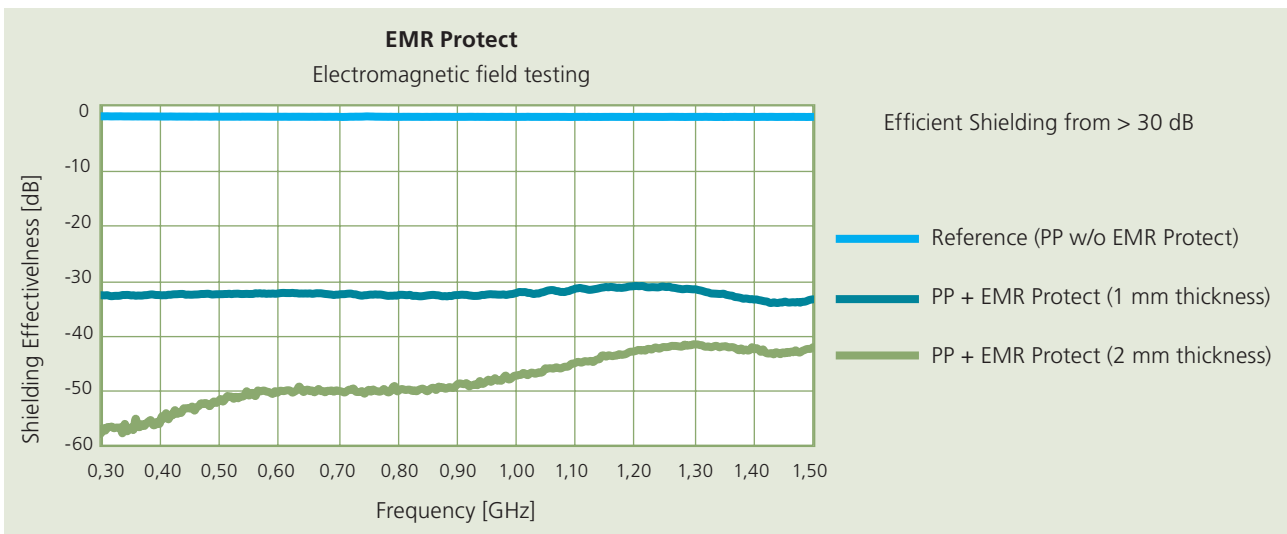
## EMR PROTECT

## Shielding Solutions for Electromagnetic Compatibility (EMC)

Electromagnetic compatibility (EMC) is the prerequisite for the proper function & operation of electrical equipment and systems in an electromagnetic environment. Protection of devices from electromagnetic radiation (EMR) shall restrict non-intended generation, propagation and reception of EMR. Undesired EMR emissions may lead to negative consequences like electromagnetic interference (EMI) which can even lead to malfunction of electronic devices in the vicinity. Electromagnetic shielding that blocks radio frequency electromagnetic radiation is also known as RF shielding.

**EMR Protect** pigments enhance EMI/RFI shielding properties for various thermoplastic compounds. These solutions offer reliability and value in applications where electromagnetic compatibility is required.

Protection from electromagnetic radiation – by means of efficient EM shielding - can reduce the coupling of radio waves, electromagnetic fields, and electrostatic fields. Devices such as electronic control units (ECU) or electronic control modules (ECM) may even be affected. EM shielding from low voltage and high voltage in electrical vehicles is of growing interest. Electrical vehicles (EVs) are part of tomorrow's multi-faceted mobility system.



EMR Protect – Shielding Effectiveness (ASTM D4935)

The technical specifications and other information in this leaflet reflect our current knowledge. They are solely intended as general information for our customers. Our customers still bear the responsibility for testing the products to ensure suitability for customers' intended applications and meeting customers' end-use requirements. We reserve the right to alter product performance and specifications. Our technical consulting service is available for further advice, technical

help in solving problems arising in manufacturing and applications, as well as with product formulations. The customer, however, is responsible for reviewing such data and recommendations prior to using them in an application. We assume no liability for the accuracy and completeness of the data presented on this leaflet or any other technical information we provide.

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