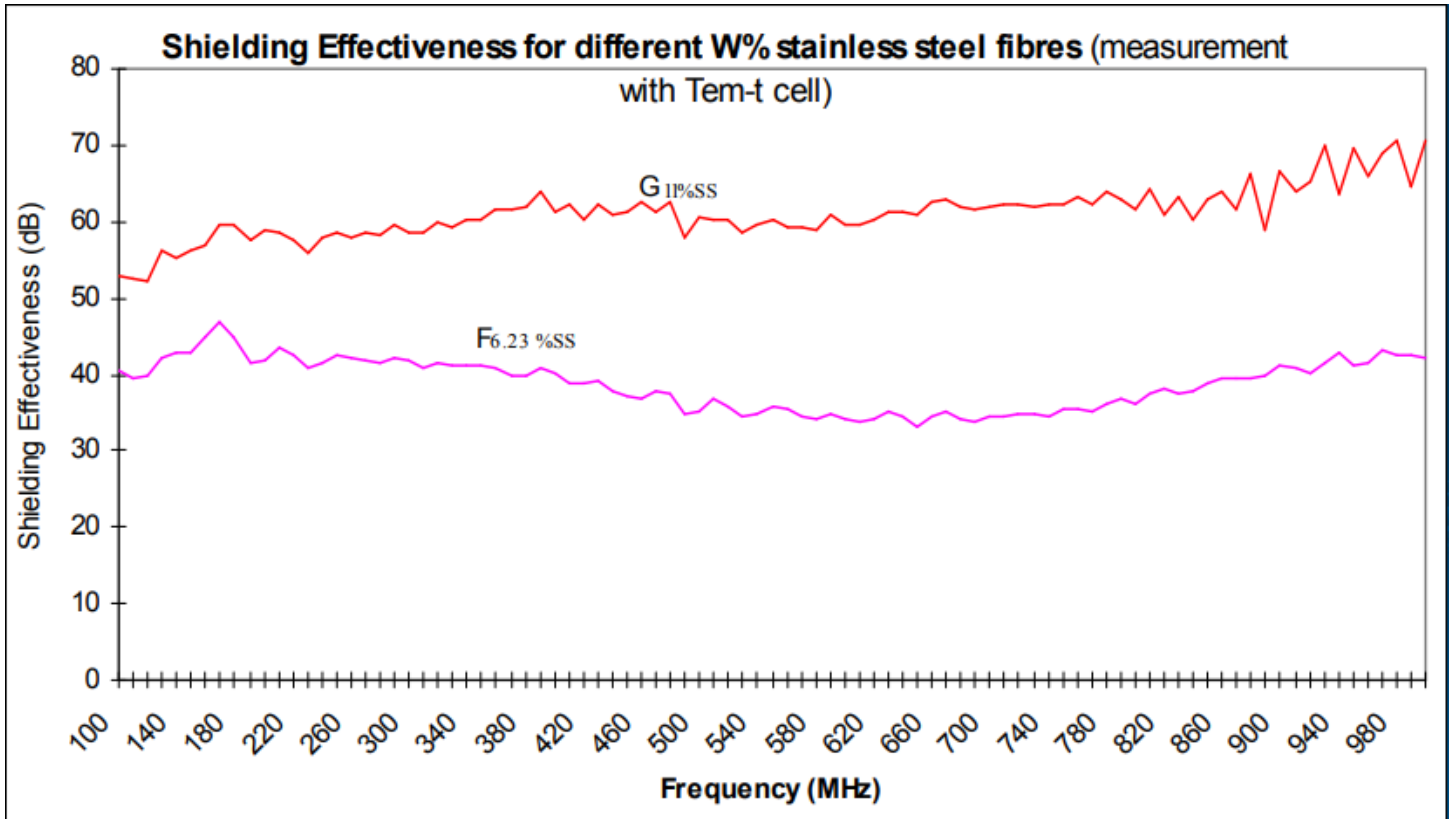
HAMMOND MANUFACTURING®

EMI Shielding

Shielding effectiveness of 11 and 6.23 weight % stainless steel fibres in 3 mm thick injection moulded polycarbonate plates (measurement with Tem-T cell)



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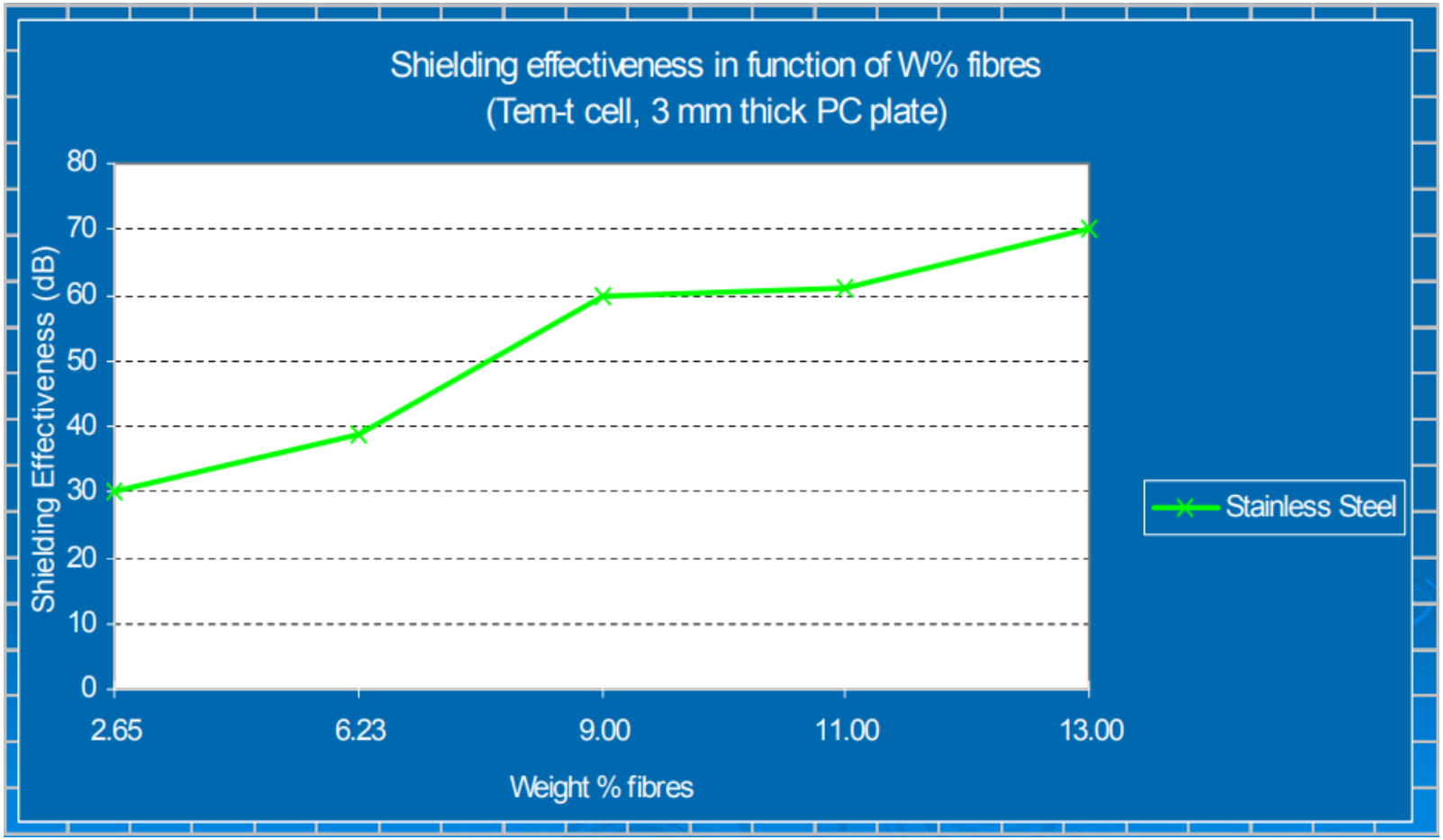
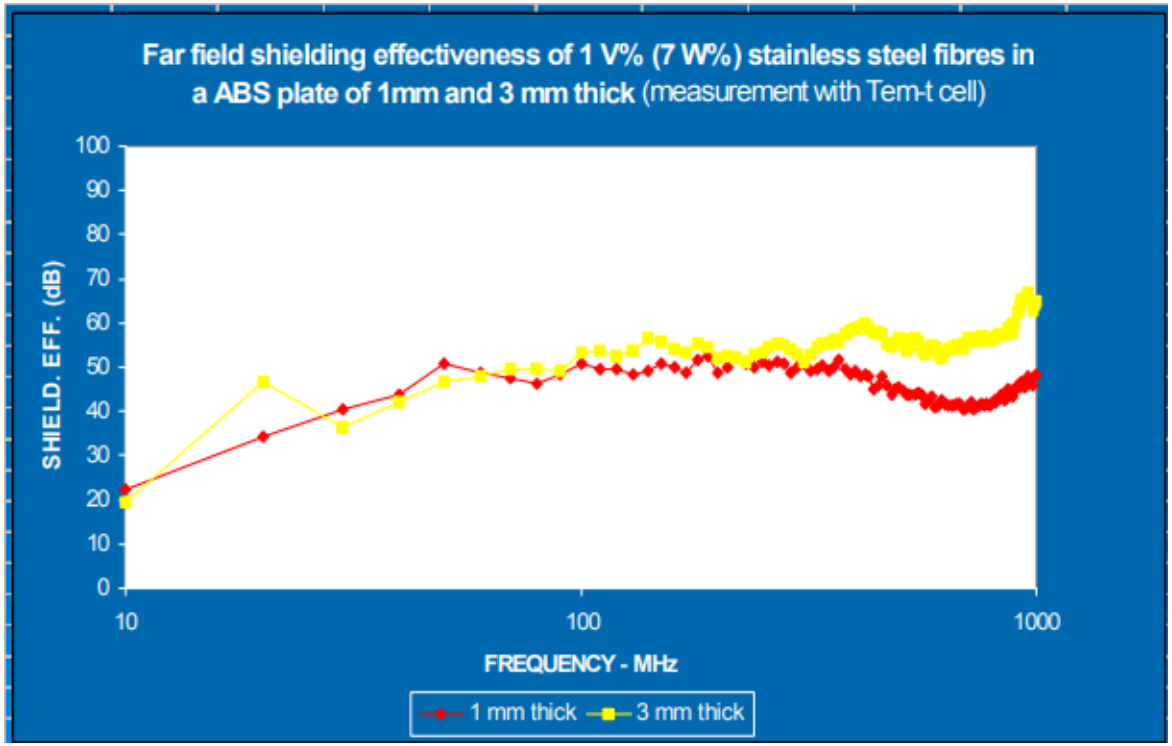


EMI Shielding

Shielding effectiveness of conductive plastics is influenced by the wall thickness

- Shielding = reflection + absorption
- Absorption of EM waves is proportional with wall thickness
- Absorption components more important at higher frequencies



EMI Shielding: Near Field

H-field shielding

- Quasi-static field: shielding is proportional with frequency and independent from magnetic permeability μ_r
- Static fields: shielding dependent from μ_r (μ_r >>1) and wall thickness => use of hugh μ metals