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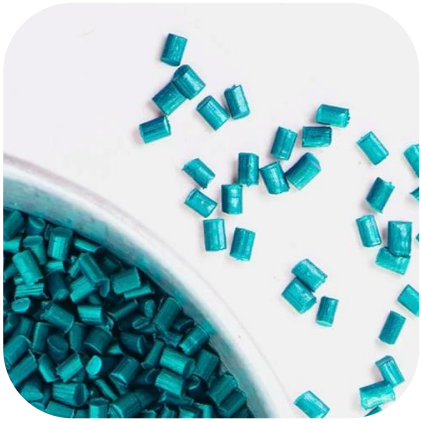
DEVELOPMENT



Ceramic Pellets for 3D Printing

CERAMIC PELLETS FOR FDM PRINTING OF TELECOM ANTENNAS

KEY WORDS

CERAMICS,
3D PRINTING,
PELLETS

DESCRIPTION

Development of ceramic pellets with minimal plastic, produced by emulsion and solvent evaporation for FDM (Fused Deposition Modeling), 3D printing. Designed for high-frequency applications such as telecom antennas, enabling more efficient, low-cost production of electronic devices.

POTENTIAL BENEFITS OR IMPACTS

Reduces manufacturing time, enables low-cost 3D printing of functional ceramics. Improves electronic manufacturing processes and expands the use of accessible printers for producing specialized components.

TECHNOLOGY MATURITY LEVEL (TRL)

TRL 4: laboratory validation

AREA OF APPLICATION

Plastics

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