CHEMISTRY THAT MATTERS™



LNP THERMOTUF NMT SOLUTION

March 2020



LNPTM THERMOTUFTM WF006NIQ INTRODUCTION

LNP THERMOTUF WF006NIQ is a 30% glass fiber reinforced PBT compound with 25% PCR content, used for NMT applications requiring sustainability concept.

Value Proposition:

- 25% PCR content
- Comparable properties as virgin WF006N
- Good warpage control
- Good color-stability



NMT SOLUTION BASIC INTRODUCTION

Types of Metal/Plastic Hybrid Design



What is NMT?

Nano molding technology (NMT) is an innovative technology wherein plastic resin is injected into metal surface which has been treated by the special chemical solution. This process is developed from the integration technology of metal and plastic, It is an excellent way to make key parts of consumer product and replace the traditional insert molding or die casting process.

Bonding Mechanism



Potential Benefit

- Reduce product thickness and weight
- Excellent mechanical structure
- Achieve multi-functionalities



- Bonding strength reliability vs. glue adhesion
- Variety of surface decoration process alternatives

$\mathsf{LNP^{\mathsf{TM}}}\,\mathsf{NMT}\,\mathsf{SOLUTION}\,\mathsf{INTRODUCTION}$





All color capability and UV stability

LNP NMT Solutions Can Help Improve Smart Phone Hybrid Designs

LNPTM NMT PRODUCT PORTFOLIO (THERMOTUFTM RESIN)



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$\mathsf{LNP^{\mathsf{TM}}} \mathsf{THERMOTUF^{\mathsf{TM}}} \mathsf{NMT} \mathsf{PORTFOLIO} \mathsf{VALUE} \mathsf{PROPOSITION}$



THANK YOU

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