

N125L

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NANO-PREG
Nano-engineered Prepreg

 **Nano -Tech**
Nano Carbon Technologies

NANO-LITE N125L

Tg 125°C nano-engineered epoxy prepreg-Toughened epoxy prepreg that combine extreme lightness and excellent mechanical performances.



NANO-LITE
*N125L is a nano-engineered
epoxy prepreg*

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Nano-Tech SpA
Via Molino Carfratelli, snc
63031, AP - Italy
info@italnanotech.com
www.italnanotech.com

Description

NANO-LITE N125L is a nano-engineered toughened epoxy prepreg developed to improve mechanical performances with a significant decrease of the composite components weight.

NANO-LITE N125L prepreg is designed for structural applications where an increase in compressive strength combined with an additional components lightness is necessary. It processes as easily as conventional prepregs and could be cured from 120°C to 150°C. Typical applications of this system include primary and secondary structural components and sandwich panels for various applications due to its high adhesion to honeycomb and foam cores.

NANO-LITE N125L will find uses in industrial, automotive, motorsport and sport goods applications.

Key features

- Extreme composite components lightness
- Very good compressive performances
- Very good mechanical properties
- Very good drape and tack
- Tg 125°C- E' DMA
- Suitable for a wide range of cure temperatures

Suggested applications

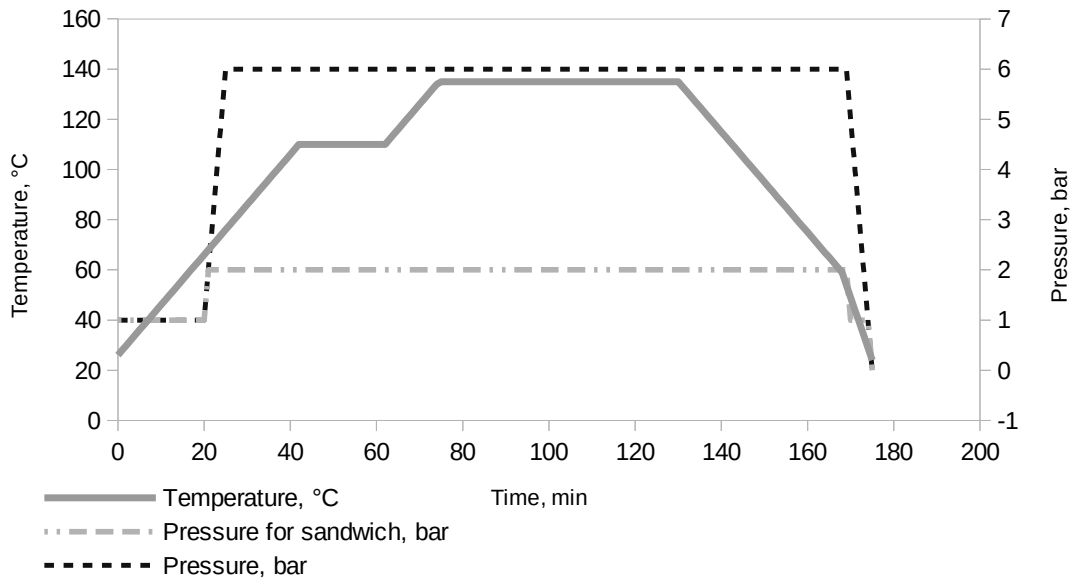
- Primary and secondary structural components such as lightweight automotive chassis and high performance mast and boom
- Sandwich structures and body panels
- Monolithic components

Mechanical Properties of Prepreg Laminates

Tests carried out on a 2x2Twill 200 g/m² high strength carbon fabric prepreg cured as suggested above.

Property	Method	Unit	Value CF200T2HS
Tensile Modulus 0°	ASTM 3039	GPa	66,8
Tensile Strength 0°	ASTM 3039	MPa	866
Compression Modulus 0°	ASTM D6641	GPa	60,4
Compression Strenght 0°	ASTM D695	MPa	772

Standard curing cycle



Temperature °C	Time	Tg °C E' (DMA)	Tg °C Peak Tan δ (DMA)
135	60	125	137

Disclaimer: All technical information contained in this document are based on tests believed to be accurate by Nano-Tech S.p.A. The method and circumstances under which these materials are processed and tested are keys to the material performances. Nano-Tech advises to apply the suggested cure cycle to achieve the best thermal and mechanical properties. Nano-Tech S.p.A gives no warranty for results obtained with different curing cycles and for specific uses and applications. Any user should determine the suitability of the products for their intended use and should assume all risks and liability in connection.