



Product Factsheet

NTPT UD Tape – 15gsm IM fibre

Product

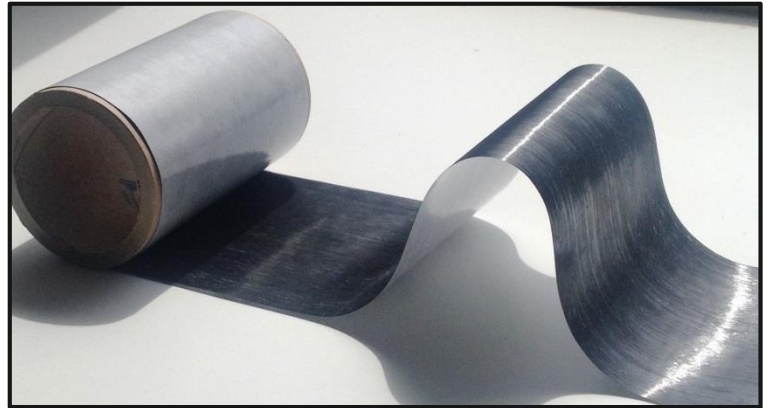
NTPT UD Tape – 15gsm IM fibre

Fibre

Mitsubishi MR70

Fibre Tensile Strength 7GPa (1000ksi)

Fibre Tensile Modulus 325GPa (47msi)



Resin

ThinPreg™120EPHTg – 402

- High Tg epoxy resin 39%
- Toughened epoxy resin system with high mechanical properties
- Ideal for high temperature applications (up to 180°C)
- High homogeneity material provides outstanding thickness & fiber/resin ratio consistency
- Out life of 60 days at 21°C (70°F)
- Outgassing compliant with space requirements

Prepreg

- 15gsm FAW, 39% resin content by weight
- Nominal Total weight – 24.6gsm
- Nominal Ply Thickness – 0.016mm
- Zero bleed fibre volume – 51%

Curing

Autoclave - See Product Datasheet ThinPreg™120EPHTg-402/CF for all details

<http://www.thinplytechnology.com/mesimages/documents/PrepregMaterials/Datasheet/402.pdf>

Out of autoclave curing process also possible for thin laminates (<5mm)

Benefits

- Creation of lightweight sandwich panels
- Symmetric laminates with multiple fibre orientations
- Design freedom
- Same performances, but much lighter than standard UD Tapes



Applications

All applications where weight saving is an issue, such as ultralight aircrafts, UAVs, space applications, rigid wings for racing yachts, and more.

Processing

Light weight prepreg tapes (<75gsm) should be handled carefully. For parts larger than 1m² (1.2sq yd), NTPT strongly recommends to use a preform made of ThinPreg™120EPHTg-402/CF laid down with an Automated Tape Laydown system. This solution minimizes mold dressing time and thus total cycle time, ensures an accurate lay down of every single piece of tape, in every designed direction, eliminates human errors.

Lead time

NTPT will be able to ship within two weeks after your order, depending on quantity.

Storage

ThinPreg™120EPHTg-402/CF should be stored at -18°C (0°F) to reach the maximum shelf life of 12 months. At 21°C (70°F), the out life is 60 days.

Packaging

ThinPreg™120EPHTg-402/CF is wound into 300 mm (11.8 inches) wide rolls on a 76 mm (3 inches) inner diameter cardboard tube. ThinPreg™120EP-402/CF is supported on a bottom silicon paper. The standard roll length is 150 linear meters (164 yards).

Contact

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