



HexPly® XF2 Surface Prepreg
User Guide



Guidance for Use

This document is intended to act as a guide for users of HexPly® XF2 prepreg to help achieve an optimum paint-ready surface finish. Please read the following carefully.

1 Introduction

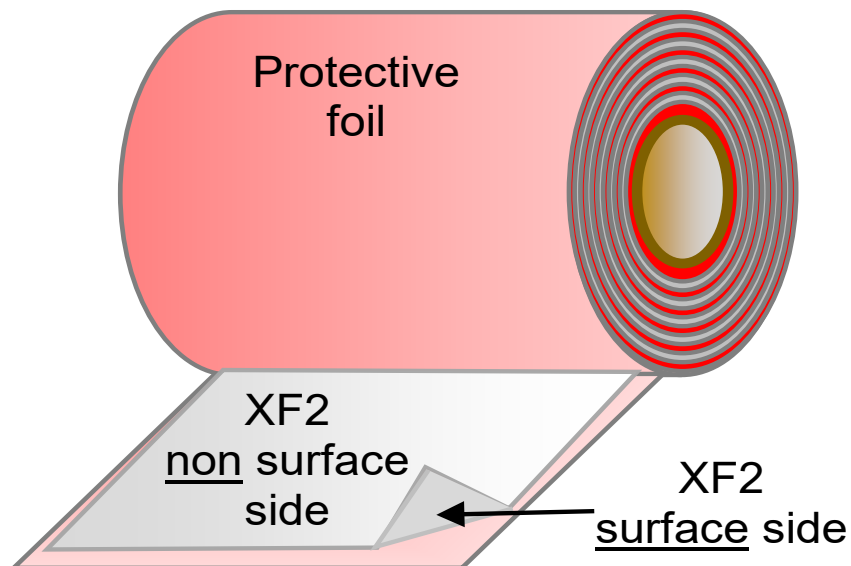
This material is designed as the surface finishing layer for in-mold composite components. HexPly® XF2 prepreg provides a paint-ready surface finish without the need for a gel or process coat. Only minimum preparation of the cured HexPly® XF2 prepreg surface is required to remove any release agent prior to painting.

2 Health & Safety

- Read the safety data sheets accompanying this material
- Wear suitable personal protective equipment

3 Material Description

HexPly® XF2 prepreg has a similar appearance to standard glass HexPly® SuperFIT™ products and has a surface finishing side and non-surface finishing side. The surface finishing side is indicated by a removable protective foil. This side of the prepreg needs to be placed against the mold surface once the foil has been removed.



4 Tool Preparation

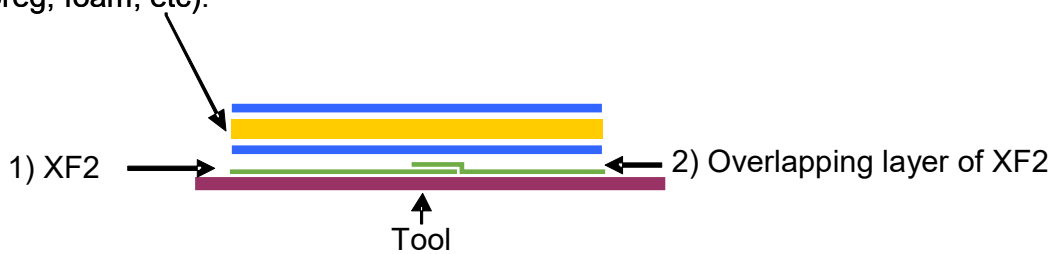
HexPly® XF2 prepreg can be laid up against a non-porous and airtight surface using a composite or metal tool that is capable of withstanding the cure temperature without dimensional deforming or degradation of the tool surface. The tool surface can have a glossy or matt finish. Any surface imperfections or imprinting of a pattern on the tool surface will be reflected on the surface of cured HexPly® XF2 prepreg. The tool needs to be suitably sealed and prepared with a release agent to ensure safe part release after cure. Certain non-permanent wax-based release agents may interact with the HexPly® XF2 prepreg during cure and form a surface which may require extensive sanding prior to painting in order to ensure that paint defects do not arise. It is advisable to test release agent compatibility, surface preparation, and paint finish on a small test laminate.

5 Lay Up

Take care when applying HexPly® XF2 prepreg to the tool surface in order to achieve the best possible finish. The side of the HexPly® XF2 prepreg that faces the tool must be the surface finishing side. Be careful when removing the protective foil to avoid damaging the surface finishing characteristics of the material.

Ensure the prepreg is pressed flat against the mold surface to smooth out any creases. Creases may result in surface defects where the prepreg has not been in contact with the mold surface. If necessary, HexPly® XF2 prepreg can be overlapped as shown in the schematic below - a 2-5 cm overlap is sufficient.

3) Further laminating materials (prepreg, foam, etc).



Hexcel Product Family



For more information

Hexcel is a leading worldwide supplier of composite materials to aerospace and industrial markets. Our comprehensive range includes:

- HexTow® carbon fibers
- HexForce® reinforcements
- HiMax™ multiaxial reinforcements
- HexPly® prepregs
- HexMC®-i molding compounds
- HiFlow™ RTM resins
- HexBond™ adhesives
- HexTool® tooling materials
- HexWeb® honeycombs
- Acousti-Cap® sound attenuating honeycomb
- Engineered core
- Engineered products
- Polyspeed® laminates & pultruded profiles
- HexAM™ additive manufacturing

For US quotes, orders and product information call toll-free 1-866-601-5430. For other worldwide sales office telephone numbers and a full address list, please go to:

<http://www.hexcel.com/contact>

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