

HexPly® S

Epoxy matrix (100°C curing matrix)

Product Data

Description

HexPly® S is specifically designed for applications with short curing cycles for sporting (e.g. in ski production). HexPly® S comprises a modified epoxy resin pre-impregnated into glass and carbon fibres. A typical curing cycle would be 15 minutes at 100°C.

Benefits and Features

HexPly® S is suited to press and autoclave manufacturing methods.

Processing Benefits

- Short curing cycles
- Dry, non-tacky prepreg
- Solvent free

Technical Benefits

- Excellent adhesive properties

Resin Matrix Properties

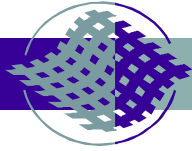
Glass Transition Temperature of laminate 80°C

Curing Conditions

The system is designed for low-temperature curing. The ideal cure-cycle is 15 minutes at 100°C at a pressure between 0.3 and 10 bar. The system is designed for processing flexibility and alternative cure cycles can be used:

@ 90 °C	20 - 22 min
@ 100 °C	15 min
@ 110 °C	14 - 15 min

The curing cycle cannot be shortened by a higher curing temperature.



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Storage and Handling

Guaranteed shelf life:	-18 °C	180 days
	+10 °C	70 days
	+15 °C	35 days
	+20 °C	21 days
	+25 °C	15 days
	+30 °C	5 days
	+35 °C	3 days

Higher temperatures have a negative on the storage stability.

Storage Conditions

HexPly® S should be stored as received in a cool dry place or in a refrigerator. After removal from refrigerator storage, prepreg should be allowed to reach room temperature before opening the polyethylene bag, thus preventing condensation. A full reel in its packaging can take up to 48 hours.

Precautions for Use

The usual precautions when handling uncured synthetic resins and fine fibrous materials should be observed, and a Safety Data Sheet is available for this product. The use of clean disposable insert gloves provides protection for the operator and avoids contamination of material and components.

Important

All information is believed to be accurate but is given without acceptance of liability. All users should make their own assessment of the suitability of any product for the purposes required. All sales are made subject to our standard terms of sale which include limitations on liability and other important terms.

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Publication No. FTC042c December 2011

For More Information

Hexcel is a leading worldwide supplier of composite materials to aerospace and other demanding industries. Our comprehensive product range includes:

- Carbon Fibre
- RTM Materials
- Honeycomb Cores
- Carbon, glass, aramid and hybrid prepregs
- HexTOOL® composite tooling material
- Structural Film Adhesives
- Honeycomb Sandwich Panels
- Engineered Core
- Reinforcement Fabrics

For US quotes, orders and product information call toll-free 1-800-688-7734

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