

HexPly® EH25

180°C curing epoxy matrix

Product Data

Description

HexPly EH25 is a high performance, tough 180°C curing matrix for use in Aerospace primary structures. HexPly EH25 is a self-extinguishing epoxy resin with controlled flow.

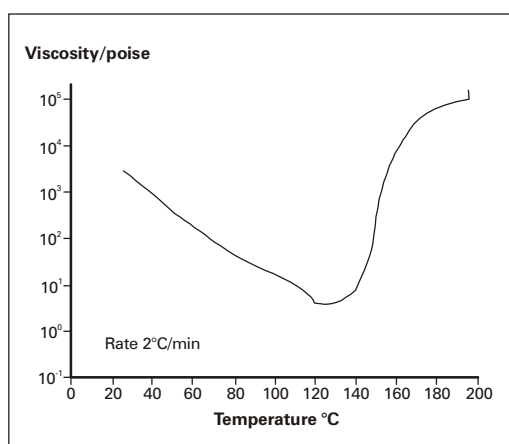
HexPly EH25 prepregs are available with fabric and UD tape.

Benefits and Features

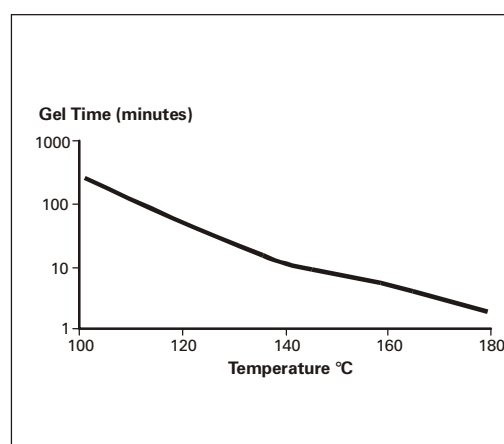
- Excellent toughness
- Self extinguishing (FAR 25B)
- Controlled flow matrix
- Curing temperature 150 - 180°C
- Maximum service temperature of 100°C (in wet conditions)

Resin Matrix Properties

Rheology



Gel Time





HexPly® EH25 Product Data

Cured Matrix Properties (cured at 180°C)

		Method
Tensile strength	75 MPa	ISO R527
Tensile modulus	3.7 GPa	ISO R527
Strain	2.4%	ISO R527
Glass transition temperature	180°C	DMA
Cured resin density	1.33 g/cm ³	

Prepreg Curing Conditions

The ideal cure cycle is 120 min at 180°C, at a pressure between 3 and 7 bar. Alternative cure cycles can be used:

Temperature (°C)	Time (hours)
150	14
160	8
170	4
180	2

Heat up rate 0.5 - 10°C/min

Prepreg Storage Life

■ Tack Life	@ 23°C	30 days
■ Guaranteed Shelf Life	@ -18°C	14 months

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 inert 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. 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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For further information, please contact your nearest sales office, or visit our website at www.hexcelcomposites.com

Australia

Suite 2, 86 Grimshaw Street
Greensborough, Victoria 3088
Tel: **61 3 9432 7100**
Fax: **61 3 9432 7200**

China

Room B707, Yin Hai Bldg.
250 Cao Xi Rd
Shanghai 200233
Tel: **86 21 6483 6741/2**
Fax: **86 21 6483 6744**

Japan - Joint Venture

DIC - Hexcel Limited
Room 603, Santsu-Mori Bldg.
2-22-1 Nishi - Shimbashi
Minato-Ku, Tokyo 105
Tel: **81 3 5401 0271**
Fax: **81 3 5401 0270**

USA

101 East Ridge Drive, Suite 102
Danbury, CT 06810
Tel: **1 203 798 8311**
Fax: **1 203 798 8161**

Austria

Industriestrasse 1
A-4061, Pasching
Tel: **43 (0)7229 7720**
Fax: **43 (0)7229 772299**

France

ZI La Plaine, B.P.27 Dagneux
01121 Montluel CEDEX
Tel: **33 (0)4 72 25 26 27**
Fax: **33 (0)4 72 25 27 30**

Spain

Bruselas, 10 - 16
Polig. Ind. "Ciudad de Parla"
28980 Parla, Madrid
Tel: **34 91 664 4900**
Fax: **34 91 698 4914**

USA

42705 Grand River
Suite 201
Novi, MI 48375
Tel: **1 248 344 8688**
Fax: **1 248 305 9760**

Belgium

Rue Trois Bourdons, 54
B-4840 Welkenraedt
Tel: **32 87 307 411**
Fax: **32 87 882 895**

Germany

Postfach 1560
21655 Stade
Tel: **49 4141 7879-00**
Fax: **49 4141 7879-01**

United Kingdom

Duxford, Cambridge
CB2 4QD
Tel: **44 (0)1223 833141**
Fax: **44 (0)1223 838808**

USA

2350 Airport Freeway, Suite 550
Bedford, TX 76022-6027
Tel: **1 817 315 3939**
Fax: **1 817 571 8629**

Brazil

Av. J. Guilhermino, 474/72
S.J.Campos, SP 12210-130
Tel: **55 12 3941 2242**
Fax: **55 12 3923 1186**

Italy

Via San Cristoforo, 44
21047 Saronno (VA)
Tel: **39 02 96709082**
Fax: **39 02 9600809**

USA

11711 Dublin Blvd.
Dublin, CA 94568-2832
Tel: **1 925 551 4900**
Fax: **1 925 828 9202**

USA

16310 NE 80th Street, Suite 102
Redmond, WA 98052
Tel: **1 425 558 4400**
Fax: **1 425 861 5847**