



HexPly® DLS1002G/RT340/39%

Epoxy Matrix

Product Data Sheet

Description

HexPly® DLS 1002G/RT340 is a woven glass fibre epoxy prepreg, whereby DLS 1002 is the resin type; 39% is the resin content by weight; RT340 is the reinforcement reference and G represents glass fibre.

Reinforcement Data

Areal Weight	340 g/m ²
Composition	Plain Weave
Fibre Type	Glass
Fibre Density	2.58 g/cm ³

Resin Matrix Properties

Glass transition temperature of laminate (Cure cycle 150°C – 30min)	92 °C (DMA onset, 2°C/min)
Resin Density	1.3 g/cm ³

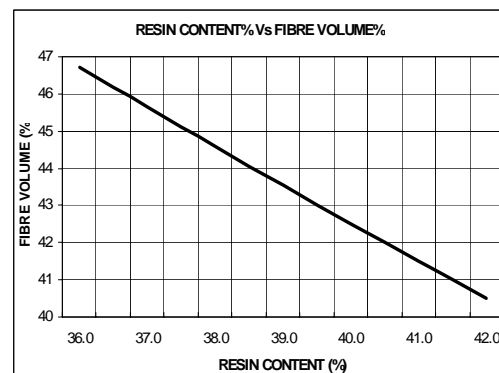
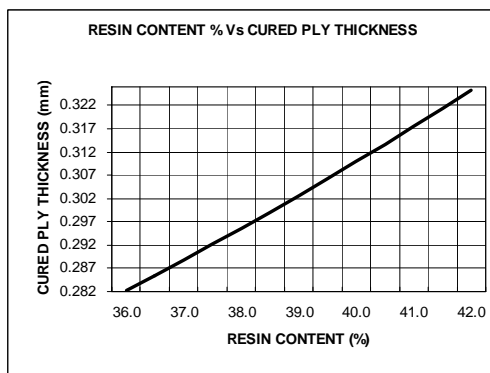
Prepreg Data

Areal Weight	559 g/m ²	± 48
Resin Content	29%	± 2
Volatiles	0.7 %	max

Processing

Cure Cycle (Sandwich panel)	@ 150 °C	30 min
Recommended heat up rate	1-5°C/min (or hot load)	
Pressure (gauge)	3.45 bar	

Cured Laminate Properties (nominal composite density 1.84 g/cm³)



The above graphs show the fibre volume content of a laminate, calculated using the measured cured ply thickness and the associated resin content of the finished part.



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Mechanical Properties based on 150°C cure for 30 mins at 3.45 bar pressure

Data is the average result from several tests on press-cured laminates. Some of the values achieved will have been higher, and some lower, than the figure quoted.

Climbing Drum Peel	
Strength (N/76mm)	345*
Test Method	ASTM 1781

* Data based on the testing of both the bag and tool face.

Storage and Handling

- **Shelf Life¹:** 580 days at -18°C/0°F (from date of manufacture)
- **Out Life²:** 30 days at Room Temperature

¹Shelf Life: the maximum storage life for HexPly® prepreg, upon receipt by the customer, when stored continuously, in a sealed moisture-proof bag, at -18°C/0°F. To accurately establish the exact expiry date, consult the box label.

²Out Life: the maximum accumulated time allowed at room temperature between removal from the freezer and cure.

Prepreg 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 packing 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 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. 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 terms.

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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
- Continuous Fibre Reinforced Thermoplastics
- Carbon, glass, aramid, and hybrid prepregs
- Reinforcement Fabrics
- Structural Film Adhesives
- Honeycomb Sandwich Panels
- Special Process Honeycombs

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

For other worldwide sales office telephone numbers and a full address list please go to:

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