



HexPly[®] M90

120°C (250°F) curing epoxy matrix



Description

HexPly[®] M90 is a high-performance epoxy matrix for use in structural prepreg applications in light aircrafts, and UAV markets. Suitable for high production rates with short cure cycles with performance level suitable for critical structures.

HexPly[®] M90 is an epoxy resin system supplied with unidirectional or woven carbon and glass fibers.

HexPly[®] M90 is designed for autoclave cure to obtain optimum mechanical performance from the composite part. (Not suitable for press cure).

Benefits and Features

- Cost-Effective resin system.
- High service temperature (Wet Tg >100°C).
- Low pressure cure.
- Low temperature cure compatibility (down to 100°C).
- Long out-life at room temperature.

Cured Matrix Properties

- Glass transition T° (Dry)* 125±5°C
- Glass transition T° (Wet)* 100±5°C
- Density 1.10-1.22 g/cm³
- Color Warm White
- Tack High

Test Method

- DMA onset according to EN6032 (Single cantilever, 1Hz, 5µm)
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- ISO1183-1

**Value obtained using the nominal cure cycle without post-cure*

Wet ageing according to EN2823.



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Product Data Sheet

Prepreg Curing Conditions

Defined heat-up rates will vary depending on the autoclave dimensions, the mass of tooling used and the size of the component to be manufactured.

Nominal Autoclave cure cycle for monolithic parts <15mm thick:

1. Apply Full Vacuum
2. Pressure gauge: 5 bars
3. Recommended heat-up rate: 0.5 – 5°C/min
4. Recommended cure cycle: 60min @120°C

Hexply[®] M90 matrix is a flexible cure matrix that is compatible with a range of cure time and temperature. Please contact Hexcel's Technical support team for more information on cure cycles.

Prepreg Storage Life

(Store sealed in dry conditions and in the absence of direct sunlight.)

- Tack Life 15 days at RT (23°C)
- Out Life 42 days at RT (23°C)
- Shelf-life 18 months at -18°C

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.

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[®] molding compounds
- HiFlow[®] RTM resins
- HexBond[®] adhesives
- HexTool[®] tooling materials
- HexWeb[®] honeycomb
- Acousti-Cap[®] sound attenuating honeycomb
- Engineered core
- Engineered products

For U.S. 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:

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

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