



# HexPly<sup>®</sup> M79

90°C (200°F) curing epoxy matrix



## Product Data Sheet

### Description

HexPly<sup>®</sup> M79 is a high-performance epoxy matrix for use in structural prepreg applications in UAV and Industrial markets. It is suitable to cure under 100°C.

HexPly<sup>®</sup> M79 is an epoxy resin system supplied with unidirectional or woven carbon or glass fibers.

HexPly<sup>®</sup> M79 was developed as a low exotherm system, making it compatible with both thick and thin parts design as well as fast temperature ramps during the cure cycle (up to 5°C/min)

HexPly<sup>®</sup> M79 is designed for autoclave cure to obtain optimum mechanical performance from the composite part.

### Benefits and Features

- Low temperature cure compatibility (down to 70°C)
- Cost-Effective resin system
- Low exotherm chemistry
- Long out-life at room temperature

### Cured Matrix Properties

- Glass transition T° (Dry)\* 110±5°C
- Glass transition T° (Wet)\* 100±5°C
- Gel Time @ 95°C 45min
- Gel Time @ 75°C 3h30min
- Density 1.1 – 1.2 g/cm<sup>3</sup>
- Color Warm White
- Tack Moderate

### 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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### 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

Please contact Hexcel's Technical support team for more information on low temperature cure cycles.

### Prepreg Storage Life

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

- Out Life      60 days at RT (23°C)
- Shelf-life    24 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<sup>®</sup> carbon fibers
- HexForce<sup>®</sup> reinforcements
- HiMax<sup>®</sup> multiaxial reinforcements
- HexPly<sup>®</sup> prepregs
- HexMC<sup>®</sup> molding compounds
- HiFlow<sup>®</sup> RTM resins
- HexBond<sup>®</sup> adhesives
- HexTool<sup>®</sup> tooling materials
- HexWeb<sup>®</sup> honeycomb
- Acousti-Cap<sup>®</sup> 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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