

HexPly[®] M9.6G
80 – 120 °C curing epoxy matrix

Provisional Product Datasheet

Description

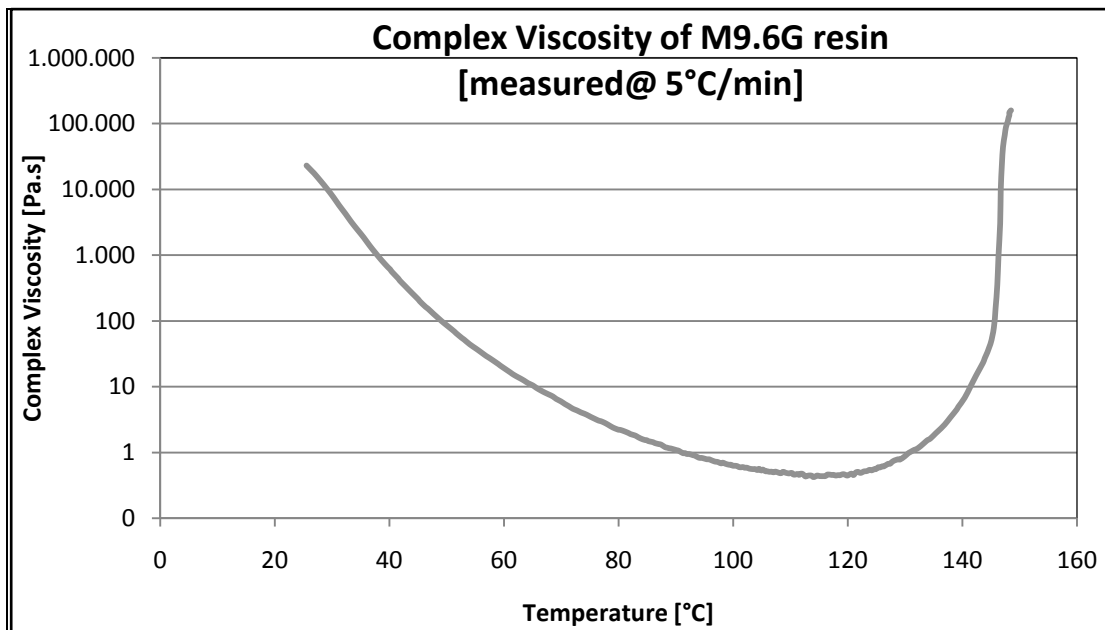
M9.6G is a formulated epoxy resin which is suitable for low pressure moulding processes. It is very versatile and allows a range of processing temperatures from 80 °C up to 120 °C. M9.6G can be used for very large industrial components subjected to severe environmental conditions. M9.6G has high fatigue resistance and gives a good surface finish. M9.6G exhibits a very long shelf life at room temperature.

Benefits and Features

- Very high flow matrix
- Excellent tack life
- Well adapted to low pressure processing
- Suitable for a range of pressures (0,3 to 5 bar)
- Versatile cure cycle 80 – 120°C
- Good flexibility and handleability of prepreg
- Suitable for thick laminates
- Good surface finish
- Low resin density
- Excellent fatigue resistance
- Translucent resin after curing

Resin Matrix Properties

- Tg: 120°C (DSC mid 10°C/min)
- Density: 1,20g/cm³
- Viscosity:





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Curing Conditions

Temperature	Time
80°C	450 min
100°C	80 min
120°C	30 min

- Recommend heat-up rate: 0,5 – 5°C/min
- Recommended dwell @80°C: 120 min
- Pressure gauge: 0,5 – 5 bars

The optimum cure cycle, heat up rate and dwell period depend on part size, laminate construction, oven capacity and thermal mass of tool.

Storage Life

- Out-life
 - @ + 23 °C 6 weeks
 - @ + 5 °C 6 months
 - @ - 18 °C 18 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. 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 Composites is a leading worldwide supplier of composite materials to aerospace and other demanding industries. Our comprehensive product range includes:

- Carbon, glass, aramid and hybrid prepregs
- Honeycomb cores
- Structural film adhesives
- Honeycomb sandwich panels
- Special process honeycombs
- RTM materials

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