

3800



250-300°F (121-149°C) Cure Epoxy Surfacing Film

Typical applications

Aerospace
Avionics
Large scale structures

Shelf life

21 days at 70°F (21°C)
3 months at 40°F (4°C)
6 months at 0°F (-18°C)

Description

3800 is a 250-300°F (121-149°C) cure, controlled flow epoxy based, non-woven heavy carrier supported surfacing film. Versatile processing, excellent cured surface quality, and long out time make 3800 suitable for surfacing film applications where high surface quality after cure is required.

Benefits/features

- Excellent cured surface cosmetics: smooth and porosity-free
- Co-curable with most 250°F (121°C) and 300°F (149°C) cure systems
- Compatible with various paints
- Sands well for easy paint preparation
- Light gray color

Application

3800 is designed for film adhesive application with excellent surface cosmetics after cure. Good adhesion and opacity, sand-ability, smooth and porosity free surface after cure make 3800 well suited for surfacing film applications such as aerospace, avionics or large scale structures where a painted surface requires good cosmetics. The use of 3800 minimizes the need for spot repairs (patching and/or sanding) to prepare a composite surface for painting.

3800 can be supplied with areal weights from 0.030-0.090 psf (150-440 gsm), supported with a non-woven carrier. Standard widths are 38, 42, and 50 inches (1, 1.1, 1.3 m).

Recommended processing conditions

3800 can be cured at temperatures from 250–300°F (121-149°C) depending on part size and complexity, and is co-curable with 250–300°F (121-149°C) resin systems. Low, medium, and high pressure molding techniques may be used to cure 3800 film adhesive. During layup, the resin rich side (the paper side) should be placed against the tool. Recommended cure cycle is 40 psi (276kPa), 3°F/min. (1.7°C/min.) ramp to 275°F (135°C), hold for 90 minutes, cool to <140°F (60°C).

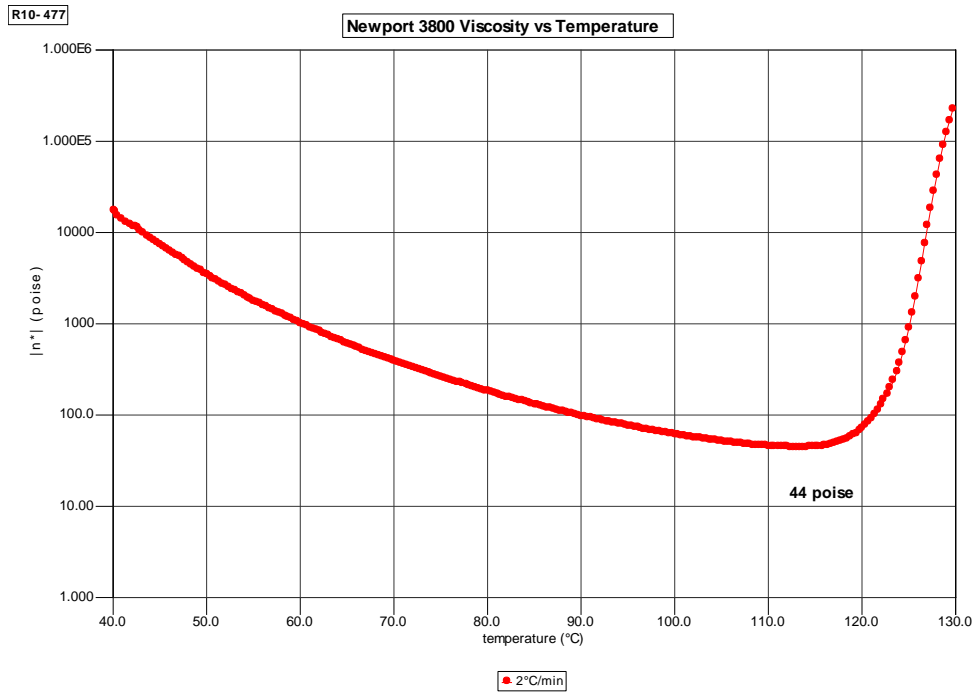


Neat Resin [values are average and do not constitute a specification]

Property	Value
Gel Time @ 275°F (135°C), minutes	3 – 6
T _g (DMA, E'), °C (°F)	90 (194)
Appearance	Light gray color

Viscosity Profile

TA - AR2000 parallel plate rheometer



The information contained herein has been obtained under controlled laboratory conditions and are typical or average values and do not constitute a specification, guarantee, or warranty. Results may vary under different processing conditions or in combination with other materials. The data is believed to be reliable but all suggestions or recommendations for use are made without guarantee. You should thoroughly and independently evaluate materials for your planned application and determine suitability under your own processing conditions before commercialization. Furthermore, no suggestion for use or material supplied shall be considered a recommendation or inducement to violate any law or infringe any patent.

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Technical Data Sheet