

TECHNICAL DATA SHEET

SF-151 is an epoxy surfacing film based on our aesthetic prepreg technology and designed for using with Microtex Composites' aesthetic prepreg series to achieve high quality cosmetic finish or paint ready surfaces from the tool. SF-151 surface film offers a versatile curing range from 80°C to 140°C to work with our aesthetic prepregs.

SF-151 surface film is suitable for either autoclave or vacuum bag only processing. It can be supplied in various weights with/without carriers. The standard product format is 300gsm with carrier.

SF-151 surface film provides good handleability and can be used for complex geometry components.

TYPICAL APPLICATIONS



AUTOMOTIVE
SURFACE

FEATURES



GOOD TACK AND HANDLEABILITY



COLOUR: GREY



MOULDS TO PAINT READY SURFACE FINISH



CO-CURE WITH OUR AESTHETIC PREPREGS



GOOD WEATHER RESISTANCE

SHELF LIFE



OUT LIFE ¹
4 weeks @ 21 °C



STORAGE LIFE
12 months @ -18 °C

¹ Out life is the maximum time allowed before cure after a single frozen storage cycle in the original prepreg bag unopened stored at -18°C or below for a period not exceeding the above mentioned frozen storage life.

NOTE: All technical information contained in this document are given in good faith and are based on tests believed to be reliable, but their accuracy and completeness are not guaranteed. They do not constitute an offer to any person and shall not be deemed to form the basis of any contract. Accordingly, the user shall determine the suitability of the products for their intended use prior to purchase and shall assume all risk and liability in connection therewith. The information contained herein is under constant review and liable to be modified. All products are sold subject to Microtex Composites Srl terms and conditions of sale. Copyright 2020 - Microtex Composites Srl. All rights reserved worldwide. All trademarks or registered trademarks are the property of their respective owners.

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Quality system certified
ISO 9001:2015
by TUV Italia s.r.l.
cert. no. 50 100 12429



Quality system certified
IATF 16949:16
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MATRIX PROPERTIES

Density @ RT: (average value) 1.34 g/cm³.

Tg (DSC max): 168.5 °C

How to use the surface film

1. Remove the SF-151 surface film from the storage freezer and allow it to warm up to room temperature.
2. Place the SF-151 on the surface of a tool with paper side face down.
3. To achieve the best surface finish, remove air and ensure good contact with the tool we recommend debulk with full vacuum at room temperature for 10 minutes.
4. Co-cure with the chosen prepreg layup with the specific requirements of the prepreg.

Recommended co-cure cycles

1. Apply full vacuum (min -0.85bar);
2. Hold vacuum for at least 4 hours before increasing temperature.
3. Heat to 135°C ± 5°C at between 1°C /min and 2°C /min;
4. Hold for 90 minutes;
5. Cool to 30°C at between 1°C /min and 5°C /min;
6. Release pressure.

Above is the suggested standard cure cycle. For advice on bespoke cure cycles for specific components, please consult Microtex Composites technical service.

AVAILABILITY

300 gsm SF-151 surface film with 17 gsm veil carrier; width 1270 mm.

PRECAUTIONS FOR USE

The usual precautions when handling uncured resins and fibrous materials should be observed, and a Safety Data Sheet is available for this product.

SDS Reference Codes: SF-151: SDS-462

STORAGE CONDITIONS

This prepreg should be stored as received in a cool dry place or in a refrigerator.

After removal from refrigerated storage, prepreg should be allowed to reach room temperature before opening the polyethylene bag, thus preventing condensation (a full roll in its packaging can take more than 1 day).