

AF-300

FST Epoxy Film Adhesive

TECHNICAL DATA SHEET

AF-300 is a thermosetting epoxy resin film adhesive designed for working with FST prepregs in the production of composite components having low heat release and fire smoke toxicity properties.

AF-300 offers a versatile curing range from 80°C to 145°C, allows to work with Microtex R3-300 prepregs to produce sandwich structures via a variety of processing methods including press cure, autoclave cure and oven vacuum bag cure.

AF-300 is a FST film adhesive to work with FST prepregs for manufacturing composite parts to meet FAR 25.853 Appendix 'F' part I, IV and V.

AF-300 are available in various formats.

PRODUCT VARIANTS

Standard Product Version

100 gsm AF-300: adhesive film, 17 gsm carrier

150 gsm AF-300: adhesive film, 17 gsm carrier

SHELF LIFE





Other Version:

150 gsm AF-300: adhesive film, unsupported

TYPICAL APPLICATIONS



USE WITH NOMEX AND ALUMINIUM HONEYCOMBS AND CORE MATERIALS

FEATURES



SUITABLE FOR AUTOCLAVE, PRESS AND OVEN VACUUM BAG CURE



RECOMMENDED CURING TEMPERATURE: 80-145 °C



GOOD TACK

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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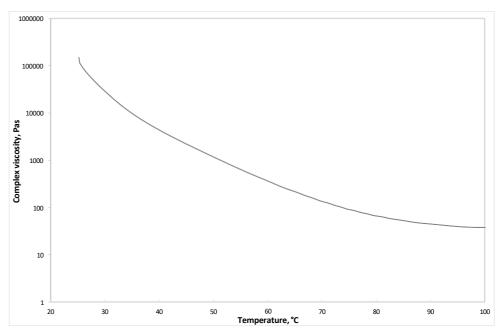




MATRIX PROPERTIES

Resin density: 1.50 g/cm³ at room temperature.

Resin viscosity: ramp rate = 2 °C/min, **V** = 10 rad/sec



CURING CONDITION AND Tg

Recommended Cure Cycle		
Vacuum Bag Pressure	min -0.85bar	
Autoclave Pressure	2.0 bar	
Ramp Rate	1.0 - 2.0 °C per minute	
Recommended Cure Cycle	30 minutes @ 130°C	
Cool down	3.0 - 5.0 °C per minute	
Tg (DMA) [°C]	160 °C	



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MECHANICAL PROPERTIES

AF-300 supported 30mins @ 130°C, 2.0 bar		100 gsm
Method	value	
Climbing Drum Peel strength [N]	ASTMD 1781	316 (Top Skin)
		267 (Bottom Skin)
Lap Shear Strength [MPa]	ASTM D1002	15.0

^{*} Test conditions: room temperature, dr y, using Nomex honeycomb in ac cording to ASTM method.

STORAGE CONDITIONS

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

After removal from refrigerated storage, adhesive film 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).

PRECAUTIONS FOR USE

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

SDS Reference Codes: AF-300: SDS-480

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