BA FEP1

FEP Release Film for Complex Contours - Perforated or Non-Perforated



Description:

BA FEP1 is a 1 mil FEP release film, clear or pigmented, for composite molding across a wide range of resin systems. Its smooth, low-gel, non-stick surface conforms to complex mold contours for high-quality part finishes and supports continuous use up to 400°F. Perforated versions control outgassing and resin bleed.

Features & Benefits:

- Complies with FDA requirements
- Exceptional chemical resistance and electric properties: flammability V-0, limiting oxygen index 95%, dielectric strength 6,000 V/mil
- Outstanding anti-stick release: smooth, non-stick FEP surface
- Temperature resistant: performance from -425 to 400°F
- High elongation (300%) and low-gel surface: conforms to complex mold geometries
- Optically transparent or pigmented (improves visibility during removal); perforated versions available; cementable (surface treated) form
- Thickness from .0005 to .030 in (.013 to .76 mm); widths up to 62 in (1575 mm), up to 48 in above .010 in

Applications:

Composite molding | Molding over complex contours | Controlled outgassing and resin bleed

Construction/ Typical Properties	Value		Test Method
Color(s):	Clear, Purple		
Backing:	Fluorinated Ethylene Propylene (FEP)		
Elongation at Break:	300%		ASTM D-882
Fold Endurance (M.I.T):	10,000		ASTM D-2176
Limiting Oxygen Index:	95%		ASTM D-2863
Solar Transmission:	96%		ASTM E-424
Flammability:	V-0		UL-94
	Imperial	Metric	
Total Thickness:	1 mil	25.4 µm	
Tensile Strength:	3,500 psi	24 MPa	ASTM D-882
Tensile Modulus (RT):	70,000 psi	480 MPa	ASTM D-882
Initial Tear Strength:	0.5-0.6 lbf	2.2-2.7 N	ASTM D-1004
Propagating Tear Strength:	0.32-0.33 lbf	1.4-1.5 N	ASTM D-1922
Dielectric Strength:	6,000 V/mil	240 kV/mm	ASTM D-149
Coefficient of Linear Thermal Expansion:	5.5×10^{-5} in/(in·°F)	9.9×10^{-5} mm/(mm·°C)	ASTM D-696
Continuous Service Temperature:	400°F	205°C	

The physical properties listed above are typical values and are not to be construed as specifications. Our suggestions and recommendations for use are based on tests we believe to be reliable. Bron Aerotech does not warrant that the product is fit for any particular purpose. Purchaser must determine suitability of the product for the intended use. Bron Aerotech, Inc. assumes no liability for claims beyond the replacement value of our product proved to be defective. Manufactured for and distributed by Bron Aerotech.

Copyright© Bron Aerotech
Last Updated: 10/4/2026