



ANDOVER CORPORATION
Quality Optical Filters and Coatings
2009 - 2010

ORDERING INFORMATION

Four Ways to Order

Online	www.andovercorp.com
Email	sales@andovercorp.com
Telephone	US toll-free 1.888.893.9992 International +00.1.603.893.6888
Fax	603.893.6508

Pricing

Current prices are available at andovercorp.com by clicking on the part numbers for particular items. For a complete price list or a specific quote, please contact our sales department.

Purchase Orders

Andover Corporation accepts e-mail, written, and online orders from customers with an open line of credit. New customers must confirm their orders in writing and supply credit references upon request.

Blanket Orders

Andover Corporation can help reduce your inventory by scheduling automatic delivery of your order over time. Complete details are available here: <http://www.andovercorp.com/info>

Payment Terms

Net 30 days from date of invoice for customers with established lines of credit. International customers should check with the sales department to determine if prepayment is required. All foreign orders are subject to shipping and banking fees. For blanket orders, please contact our sales department for special terms and conditions. Visa, MasterCard and American Express accepted.



Shipping

Most standard items ship within two days of receipt of an order. All out-of-stock products are shipped within two weeks. For rush orders, one-day shipping may be available.

All prices are FOB Salem, New Hampshire, USA. Shipments are freight prepaid and billed to the buyer.

Order online for free ground shipping within the US.

Return Policy

Andover Corporation accepts returns of defective items up to one year from the invoice date. Before returning any items, please contact our technical sales staff for a Return Goods Authorization (RGA) number and complete shipping instructions.

LIMITED WARRANTY

Andover warrants that all products shall conform to the product specifications and shall be free from defects in materials and workmanship for a period of one year from date of purchase. This Limited Warranty shall not apply in the event of any failure caused by accident, misuse, neglect, alteration or improper installation or repair by the purchaser.

Disclaimer of other warranties. The limited warranty set forth above is in place of other warranties, express or implied, and Andover expressly disclaims all other warranties, including warranties of merchantability and fitness for a particular purpose. Specifically, it is the purchaser's responsibility to test and determine the suitability of the products for purchaser's intended use, which shall be the sole responsibility of the purchaser.

Limitation of remedies and damages. Andover's sole obligation and the purchaser's sole and exclusive remedy under the Limited Warranty set forth above shall be limited to (a) replacement of defective products provided that written claim of the defect is sent to Andover within the Limited Warranty period, the original product is returned with transportation prepaid, and Andover's inspection establishes the existence of such defect; or (b) at the sole discretion of Andover, return of the original purchase price received by Andover from the purchaser. Andover shall in no event be liable for any damages, including without limitation, lost profits, incidental or consequential damages by reason of or in connection with the purchase or use of the products.

Indemnification. The purchaser agrees to indemnify and hold Andover harmless from and against any claim, loss, cost or expense resulting from purchaser's use of the products, whether such claim arises in contract, tort or otherwise.

Governing law. All matters arising under this Limited Warranty and other terms and conditions of sale shall be governed by the laws of the State of New Hampshire. The purchaser consents to the exclusive jurisdiction of the courts of the State of New Hampshire in all matters relating to the purchase, sale and use of the products.

EPOLITE FH-5313 EPOXY

- **Ideal for bonding a variety of optical substrates and potting electronic assemblies**
- **Excellent chemical resistance, mechanical strength**
- **Appropriate for low fluorescence applications**

Fuller Epolite FH-5313 is a 100% solid, room-temperature curing, optically clear, electrical grade epoxy. Proven to be a superior bonding agent for ferrite pot cures, this system is designed for continuous operation at temperatures up to 200°F. Resin and hardener sold individually or in kits and in premeasured A-Paks.

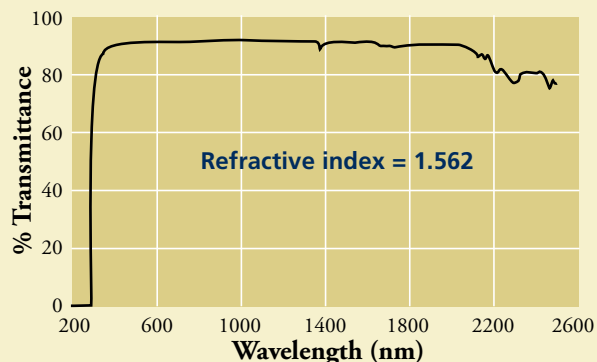


Type	Weight and Content	Part Number
Premeasured A-Pak	5.2 grams Resin, .8 grams Hardener	FH-5313A-A-PAK
Resin & Hardener Kit	16oz. Resin, 2oz. Hardener, 6 Droppers	FH-5313A-KIT
Resin Only	16oz. 64oz. 128oz.	FH-5313A-RESIN/16 FH-5313A-RESIN/64 FH-5313A-RESIN/128
Hardener Only	2oz. 8oz. 16oz.	FH-5313A-HARD/2 FH-5313A-HARD/8 FH-5313A-HARD/16

Certified results from an independent testing lab.

GENERAL PROPERTIES	VALUE	TEST METHOD
Specific Gravity	1.17	ASTM-D-792-00
Hardness, Shore D	81	ASTM-D-2240-04e1
Strength		
Tensile	7,940 psi	ASTM-D-683-03
Shear	782 psi	ASTM-D-1002-01
Compressive	15,440 psi	ASTM-D-695-02a
Flexural	13,860 psi	ASTM-D-790-03
Coefficient of Linear Thermal Expansion	93.5 ppm/°C	ASTM-E-831-03
Mixed Viscosity	1,970 cP	MIL-STD-883E
Pot Life Minutes at 77°F	30	ERF 13-70
Cure Schedule Hours at 77°F	12	
Cure Schedule Hours at 150°F	1	
Mix Ratio by Weight (A:B)	100:15	
ELECTRICAL PROPERTIES		
Dielectric Strength	2,128 volts/mil	ASTM-D-149-97a
Dielectric Constant @100 Hz	4.06	ASTM-D-150-98
Dissipation Factor @100 Hz	0.001	ASTM-D-150-98
Volume Resistivity, ohm/cm	8.4 x 10 ¹⁴	ASTM-D-257-99
CHEMICAL RESISTANCE		
Isopropyl Alcohol		
Weight Change	0.15%	ASTM-D-543-95
Thickness Change	0.902%	ATSM-D-543-95
Jet A		
Weight Change	0.055%	ASTM-D-543-95
Thickness Change	0.519%	ASTM-D-543-95
OUTGASSING PROPERTIES		
Total Mass Loss	0.56%	ASTM-E-595-03e2
Collected Volatile Condensable Material	<0.01%	ASTM-E-595-03e2
Water Vapor Regain	0.29%	ASTM-E-595-03e2

OPTICAL TRANSMISSION



Based on 0.001" -thick sample sandwiched between two 1mm-thick fused silica substrates.