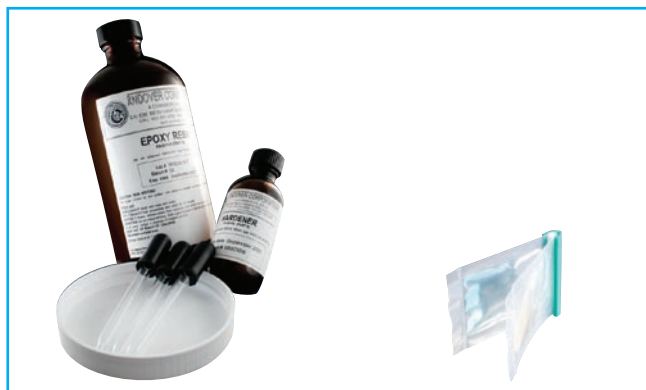


Epolite FH-5313 Epoxy

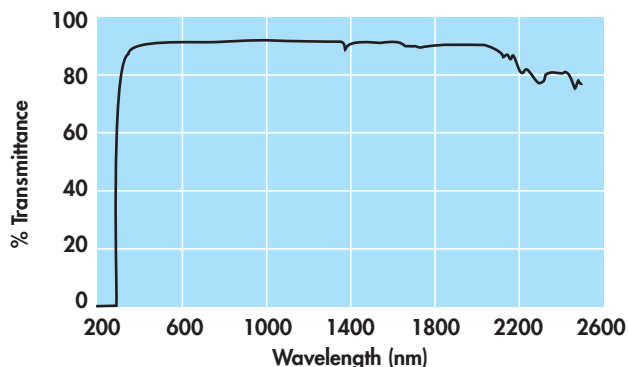


Fuller Epolite FH-5313 is a 100% solid, room-temperature curing, optically clear, electrical grade epoxy. Proven to be a superior bonding agent for ferrite pot cures, this system is designed for continuous operation at temperatures up to 200°F. Resin and hardener sold individually or in kits and in premeasured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

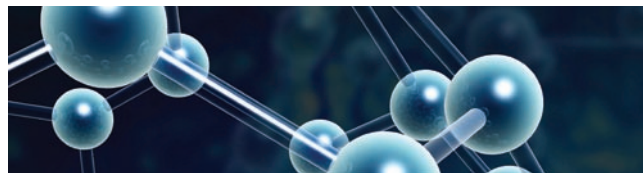
- Ideal for bonding a variety of optical substrates and potting electronic assemblies
- Excellent chemical resistance, mechanical strength
- Appropriate for low fluorescence applications

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

Optical transmission



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



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

Certified results from an independent testing lab