Epo-Weld™ HTE-6418



High Temperature, Superior Strength & Chemical-Resistant Bonder

PRODUCT DESCRIPTION

Incure Epo-Weld™ 6418 (1:1) is an innovative, high performance, two-component epoxy (sealant and encapsulant) bonding material that offers effective bonding and filling properties on many substrates. Super fast-setting of pot-life of just 3 mins, bonding strength starts increasing after 15 mins and full cure within 72hrs at room temperature. Incure 6418 cures to a high gloss clear surface encapsulant with exceptional high temperature and chemical resistance. An excellent choice for use without curing equipment where speed of cure is desired. Complies to 2011/65/EU RoHS regulations.

UNCURED PROPERTIES

Chemical Type	Epoxy, 100% Solids, No Solvents				
Appearance	Two-Part Component, Clear				
Density, g/ml	1.16	Refractive Index		N.A.	@20°C
Flash Point, °C	>150	Toxicity Very Low (Refer to MSDS)			SDS)
Viscosity, cP (rpm)	20	4,500 - 8,500		Spindle	5
Other viscosities are a viscosity range reque this product may be p Email us at: support@local distributor for me	ASTM	D2556			

¹ Viscosity (cP) taken at 25°C - Call to enquiry for other viscosities.

SECONDARY HEAT CURE SCHEDULE

Continuous Oven Bake	Duration	
150°C (302°F)	N.A.	
125°C (257°F)	5 mins	
110°C (230°F)	8 mins	
100°C (212°F)	10 mins	
25°C (77°F)	72 hrs	

Above are recommended schedules. Request for other cure schedules may be

charged at a nominal fee

CURED PROPERTIES

Shore Hardness, Dur	ometer	D73 to D83	ASTM 2240	
Linear Shrinkage / Expansion (-ve)		-0.05%	ASTM 570	
Water Absorption at 24hrs		1.47%	² ISTM D2566	
Tensile (PSI) * PC-PC / SS-SS / S-S / AL-AL * PC Substrate Failure	PC-PC / SS-SS	1,600* / 5,600*	ASTM 638	
	S-S / AL-AL	9,400* / 3,600*		
Surface After Full Cure		Sleek	² ISTM D189	
Elongation at Break		3.8%	ASTM 638	
Thermal Range (Brittleness / Degrades) °C		-55 to 155	² ISTM D366	
Young's Modulus of Elasticity, MPa (PSI)		1,002 (145,400)	³ ASTM 638	
Average Linear CTE,	ppm/°C	37	² ISTM D696	
Thermal Conductivity,	W/mK	N.A.	² ISTM D696	
Dielectric Constant, 1	00Hz	4.10	² ISTM D696	
Volume Resistivity, of	ım-cm	5.0E+15	² ISTM D696	
Surface Resistivity, of	nm	5.0E+14	² ISTM D696	

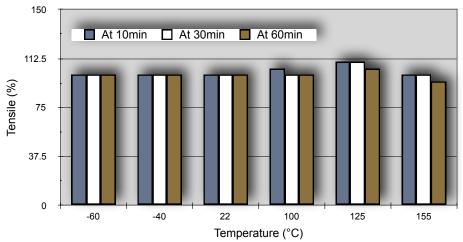
Incure, Inc.
1 Hartford Square, Box 16 West,
Suite C-3, New Britain,
CT 06052, USA Tel: (860) 748 2979 support@uv-incure.com

RoHS Pb HF

Incure Adhesives Manufacturing Pte Ltd 33 Ubi Avenue 3 #04-23, Vertex Tower B,

Singapore 408868 Tel: (65) 6509 3670 www.uv-incure.com

TENSILE STRENGTH VS TEMPERATURE



SHELF-LIFE, STORAGE, USE AND HANDLING OF THIS PRODUCT

Shelf–Life of this unopened product is a minimum of ONE (1) year from date of manufacture. Avoid direct exposure of bottle to visible light at all times. Containers should remained covered when not in use. Product should be stored in a dark cool place of 5°C to 25°C. Transfer of product into other packages void all warranties. Users should ensure all bonding surfaces are free of grease, mold release, or any contaminants, as bonding performance will be compromised. All tests for cured bonds should be carried out at ambient temperature. For safe handling of this product, please read Material Safety Data–sheet (MSDS) prior to use. Organic solvents, such as IPA, may be used to wipe away uncured material from surfaces.

EtO and GAMMA STERILIZATION (Not Applicable for this Product)

All Incure Medical products are formulated to subject to standard sterilization methods, such as EtO and Gamma Radiation of 25 to 50 kGrays (cumulative). Enhanced moisture and thermal resistance of this product show excellent adhesion and bonding strength after one cycle of steam auto-clave test. Depending on bond design and structure of the application, users should test specific assemblies after subjecting them to the test requirements. Please consult Incure Support Team for assistance, if your devices are subjected to more than one sterilization cycles.

NOTE

The data contained in this document are furnished for information only. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein. INCURE will not be liable for any indirect, special, incidental or consequential loss or damage arising from this INCURE product, regardless of the legal theory asserted. INCURE recommends that each user adequately test its proposed use and application before repetitive use, using this data as a guide.

² ISTM - refers to Incure Standard Test Method.
3 ASTM 638 Young's Modulus test speed @5mm/min for rigid and semi-rigid materials, @50mm/min for non-rigid materials, unless otherwise specified