Ad-Tech Epoxy EL-337

Epoxy; Epoxide

Ad-Tech Plastic Systems Corp.

Message:

EL-337 is an improved, health-safe, two component, filled, non-staining, high temp epoxy laminating system specifically developed for room temp hardening (B Stage) with high temp properties for high temp tooling applications. EL-337 has excellent handling properties and fabric wet-out to produce a void free tool with high dimensional stability. EL-337 can be used in the construction of large or small tools, as well as production parts. El-337 can also be used with ADTECH High Temp Surface Coats ES-219 and ES-229. Tools made with EL-337 can be used at continuous temperature of 160°C/320°F, and intermittent temperatures up to 191°C/375°F. While EL-337 will gel at room temp, it must be post-cured to achieve ultimate strength. The system contains no MDA or VCHD. Typical applications include: vacuum form molds, prototype injection molds, high temp bonding fixtures, spray metal molds, compression molds, high temp laminated molds and parts to be used in high temp applications.

General Information			
Features	Good Dimensional Stability Non-MDA Cured		
Uses	Laminates Molds/Dies/Tools Tooling		
Appearance	Grey		
Forms	Pellets		
Processing Method	Laminating		
Physical	**Nominal Value**	**Unit**	**Test Method**
Apparent Density	1.26	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.13	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	88		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Break)	188	MPa	ASTM D638
Tensile Elongation (Yield)	1.6	%	ASTM D638
Flexural Modulus			ASTM D790
-- [2]	8960	MPa	
149°C	5650	MPa	
Flexural Strength			ASTM D790
-- [3]	269	MPa	
Break, 149°C	58.5	MPa	
Compressive Strength [4]	103	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact - Cast Bar	0.598	J	
Work Time [5]	45.0 to 60.0	min	
Thermal	**Nominal Value**	**Unit**	**Test Method**

Glass Transition Temperature	114	°C	ASTM E1356
CLTE - Flow	4.3E-5	cm/cm/°C	ASTM D696
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Thermoset Components			
	Mix Ratio by Volume: 1.0		
Hardener	Mix Ratio by Weight: 16		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 4.9		
Shelf Life (25°C)	100	wk	
Thermoset Mix Viscosity (25°C)	3000 to 5000	cP	ASTM D2393
Demold Time (25°C)	960 to 1400	min	
Post Cure Time	72 to 120	hr	

NOTE	
1.	6 Layer, 10 Ounce Glass Fabric Laminate
2.	6 Layer, 10 Ounce Glass Fabric Laminate
3.	6 Layer, 10 Ounce Glass Fabric Laminate
4.	Cast Bar
5.	232g

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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