

EpoxAmite® 103 SLOW

Epoxy; Epoxide
Smooth-On, Inc

Message:

EpoxAmite® 100 Epoxy Laminating System is an easy-to-use liquid epoxy system formulated for a wide variety of fabrication applications. EpoxAmite® 100 Laminating System is unfilled, low in viscosity, odorless and cures at room temperature. Cured epoxy displays exceptional physical and performance properties. It can be sanded, shaped, machined, drilled, tapped and painted.

EpoxAmite® 100 Laminating System can be used with reinforcements such as S-Glass, E-Glass, Kevlar and Carbon fibers for lay-up applications or composite parts. EpoxAmite® 100 Resin can also be mixed with fillers such as fumed silica for gel coat applications. Urefil® 3, Urefil® 7 and other fillers can be added for fairing, filleting or bonding applications.

General Information			
Features	Blush Resistant		
	Bondability		
	Low to No Odor		
	Low Viscosity		
	Machinable		
	Moisture Resistant		
	Paintable		
Uses	Bonding		
	Coating Applications		
	Laminates		
	Protective Coatings		
Appearance	Yellow		
Forms	Liquid		
Processing Method	Casting		
	Hand Lay-up		
	Laminating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D1475
Specific Volume	0.910	cm ³ /g	ASTM D792
Work Time - Thin Film	3.0	hr	
Cure Time ¹	20.0 to 24.0	hr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3120	MPa	ASTM D638
Tensile Strength			ASTM D638
Break	54.5	MPa	

Break ²	186	MPa	
Tensile Elongation (Break)	2.6	%	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength			ASTM D790
--	84.8	MPa	
-- ³	143	MPa	
Compressive Modulus	717	MPa	ASTM D695
Compressive Strength	72.4	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	52.8	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 3.0		
Part B	Mix Ratio by Weight: 28, Mix Ratio by Volume: 1.0		
Pot Life ⁴	55	min	ASTM D2471
Thermoset Mix Viscosity ⁵	650	cP	ASTM D2393
NOTE			
1.	Thin Film		
2.	6 ply / 10 oz. laminate after 7 days at 73°F / 23°C		
3.	6 ply / 10 oz. laminate after 7 days at 73°F / 23°C		
4.	100 g		
5.	100 g		

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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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