

# EpoxAmite® 102 MEDIUM

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	1.11	g/cm <sup>3</sup>	ASTM D1475
Specific Volume	0.903	cm <sup>3</sup> /g	ASTM D792
Work Time - Thin Film	1.5	hr	
Cure Time <sup>1</sup>	10.0 to 15.0	hr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ASTM D638
Tensile Strength			ASTM D638
Break <sup>2</sup>	185	MPa	

Break	56.4	MPa	
Tensile Elongation (Break)	3.2	%	ASTM D638
Flexural Modulus	2920	MPa	ASTM D790
Flexural Strength			ASTM D790
-- <sup>3</sup>	197	MPa	
--	84.3	MPa	
Compressive Modulus	841	MPa	ASTM D695
Compressive Strength	75.6	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	48.9	°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: 29, Mix Ratio by Volume: 1.0		
Pot Life <sup>4</sup>	22	min	ASTM D2471
Thermoset Mix Viscosity <sup>5</sup>	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

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