

BJB Epoxy TC-1600 A/B

Epoxy; Epoxide

BJB Enterprises, Inc.

Message:

TC-1600 A/B is an unfilled, low viscosity laminating resin generally used for fabricating reinforced laminates. It features an ability to cure at room temperature for applications that do not require a working service temperature above 180°F (82°C). This system can provide service up to 300°F (149°C) when post-cured.

TC-1600 is commonly used to reinforce fiberglass, Kevlar/aramid, and carbon fiber fabrics. It is also used as an adhesive for bonding wood, composites, and other substrates. Adding fillers like fumed silica, micro-spheres, and short-strand fibers can create pastes for fillets, fairings, and bonding applications.

General Information			
Features	Good Adhesion		
	Low Viscosity		
Uses	Adhesives		
	Laminates		
Appearance	Clear/Transparent		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Specific Gravity			
Part A : 25°C	1.147	g/cm ³	
Part B : 25°C	0.978	g/cm ³	
Water Absorption - 100 hr	1.5	%	ASTM D570
Shrinkage	0.015	%	
Demold Time (25°C)	12.0 to 15.0	hr	
Work Time (25°C) ¹	30.0	min	
Brookfield Viscosity			
Mixed : 25°C	1.70	Pa · s	
Part A : 25°C	2.00	Pa · s	
Part B : 25°C	0.185	Pa · s	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	95		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	241	MPa	ASTM D638
Flexural Modulus	15900	MPa	ASTM D790
Flexural Strength	276	MPa	ASTM D790
Compressive Strength	290	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	270	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	121	°C	ASTM D648
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D3386
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 20		
Post Cure Time	12 to 15	hr	
NOTE			
1.	1 lb mass		

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