

# BJB Epoxy TC-1607 A/B

Epoxy; Epoxide  
BJB Enterprises, Inc.

Message:

TC-1607 A/B is an unfilled, medium viscosity laminating resin for high temperature plastic tooling and part fabrication. This system is ideal for wet lay-up tooling applications where excellent dimensional stability and high mechanical properties are required.

Features:

- Easy to use for lay-ups requiring vacuum bagging
- Withstands temperatures to 350°F (177°C)
- Designed for fabrication of a variety of molds

General Information			
Features	Medium Viscosity		
Uses	Laminates		
	Molds/Dies/Tools		
	Tooling		
Appearance	Translucent		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm <sup>3</sup>	ASTM D792
Specific Gravity			
Part A	1.200	g/cm <sup>3</sup>	
Part B	1.000	g/cm <sup>3</sup>	
Shrinkage <sup>1</sup>	0.13	%	
Demold Time	1.0	day	
Work Time (25°C) <sup>2</sup>	35.0	min	
Brookfield Viscosity			
Mixed : 25°C	2.10	Pa · s	
Part A : 25°C	6.50	Pa · s	
Part B : 25°C	0.185	Pa · s	
Laminate Service Temperature	177	°C	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D, 177°C	85 to 89		
Shore D, 25°C	93 to 97		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	176	MPa	ASTM D638
Flexural Modulus			ASTM D790
25°C	15500	MPa	
177°C	6890	MPa	
Flexural Strength			ASTM D790

25°C	335	MPa	
177°C	103	MPa	
Compressive Strength	182	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	166	°C	DSC
CLTE - Flow	1.4E-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, Mix Ratio by Volume: 24		
Shelf Life	52	wk	
NOTE			
1.	16 plies of 7500 fiberglass cloth laid up at 0° and 45°		
2.	1 lb mass		

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