BJB Epoxy TC-1651 A/B

Epoxy; Epoxide

BJB Enterprises, Inc.

Message:

TC-1651 A/B is an aluminum powder filled epoxy casting resin system that provides service temperatures in the range of 340°F (171°C). TC-1651 A/B is most commonly used for the construction of molds that require good heat conductivity, outstanding durability, and that provide production run capability.

General Information			
Filler / Reinforcement	Aluminum		
Features	Conductive Durable		
Uses	Molds/Dies/Tools		
Forms	Liquid		
Processing Method	Casting		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.70	g/cm³	ASTM D792
Specific Gravity			
Part A : 25°C	1.796	g/cm³	
Part B : 25°C	0.988	g/cm³	
Shrinkage	0.20	%	ASTM D2566
Demold Time (25°C)	16.0 to 24.0	hr	
Gel Time	3.0	hr	ASTM D2471
Work Time (25°C) [1]	2.0	hr	
Brookfield Viscosity - Mixed (25°C)	12.8	Pa·s	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	90		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	55.8	MPa	ASTM D638
Flexural Modulus	7310	MPa	ASTM D790
Flexural Strength	73.1	MPa	ASTM D790
Compressive Strength	190	MPa	ASTM D695
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	113	°C	ASTM D648
CLTE - Flow	3.6E-5	cm/cm/°C	ASTM D3386
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 9.0		

Shelf Life	52	wk

NOTE	
1.	1 lb mass

Recommended distributors for this material

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