BJB Polyurethane TC-808 A/B

Polyurethane

BJB Enterprises, Inc.

Message:

TC-808 A/B is a low viscosity, rapid setting, and rigid urethane compound. This system will cure quickly to a hard, tough casting. TC-808 A/B is generally insensitive to moisture during and after cure and will readily bond to itself if stage pours are required. TC-808 A/B is recommended in applications where a "thermoplastic feel" is desired.

General Information			
Features	Low viscosity		
Appearance	White Opacity		
Forms	Liquid		
Processing Method	Casting		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
-- [1]	1.02	g/cm³	
-- [2]	1.14	g/cm³	
--	1.08	g/cm³	ASTM D792
Molding Shrinkage - Flow [3]	0.40	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	76 - 80		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1310	MPa	ASTM D638
Tensile Strength	41.4	MPa	ASTM D638
Tensile Elongation (Break)	7.0	%	ASTM D638
Flexural Modulus	1170	MPa	ASTM D790
Flexural Strength	42.9	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	28	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.7	°C	ASTM D648
Ball Pressure Test (75°C, 1.70 mm)	Pass		IEC 60695-10-2
Electrical	**Nominal Value**		**Test Method**
Dielectric Constant (1 MHz)	3.45		ASTM D150
Dissipation Factor (1 MHz)	0.018		ASTM D150
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Thermoset Components			
Component a	Mixing ratio by weight: 100, mixing ratio by capacity: 90		

Component B	Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Shelf Life (25°C)	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C [4]	300	cP	Brookfield
25°C [5]	90.0	cP	Brookfield
25°C	200	cP	Brookfield
Demold Time (25°C)	30 - 60	min	
Work Time [6] (25°C)	2.0 - 2.3	min	
Cure Time (25°C)	5.0 - 7.0	day	

Additional Information	Nominal Value	Unit	Test Method
In order to achieve maximum physical properties, a post cure with heat is required. BJB recommends 24 hours at ambient temperature, 77°F (25°C), followed by 16 hours at 180°F (82°C). Support of the part may be required to prevent part deformation during the heat curing process.			

NOTE	
1.	Part B
2.	Part A
3.	12" x 1/2" x 1/2"
4.	Part B
5.	Part A
6.	100g mass

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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