BJB Polyurethane TC-8772 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

TC-8772 A/B is a two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for use casting highly wear-resistant parts and linings. This product is safe and easy-to-handle. TC-8772 A/B is relatively insensitive to typical environmental moisture and will make excellent void-free parts without the problems that some conventional urethane systems exhibit. Because of this product's exceptional toughness and abrasion resistance, castings made with TC-8772 A/B are particularly suitable for mining and mineral process industries.
Product Highlights:
Exceptional abrasion and impact resistance
Contains no MDI, MDA, OR MOCA
Easy to handle

General Information			
Features	Ultra-high impact resistance Ultra high toughness Good wear resistance		
Uses	Abrasion Resistant Liners Gear Mining application		
Appearance	Clear/transparent Transparent amber		
Forms	Liquid		
Processing Method	Casting		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
-- [1]	1.12	g/cm³	
-- [2]	1.17	g/cm³	
--	1.14	g/cm³	ASTM D792
Shrinkage	0.50	%	ASTM D2566
Gel Time	12.0 - 15.0	min	
Work Time [3] (25°C)	8.0 - 10.0	min	
Cure Time (25°C)	5.0 - 7.0	day	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65 - 75		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	372	MPa	ASTM D638
Tensile Strength	34.6	MPa	ASTM D638
Tensile Elongation (Break)	480	%	ASTM D638

Flexural Modulus	372	MPa	ASTM D790
Flexural Strength	14.3	MPa	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength	133	kN/m	ASTM D624
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	> 470	J/m	ASTM D256
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Thermoset Components			
Component a	Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Component B	Mixing ratio by weight: 40, mixing ratio by capacity: 38		
Shelf Life (25°C)	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C [4]	4350	cP	Brookfield
25°C [5]	250	cP	Brookfield
25°C	2430	cP	Brookfield
Demold Time (25°C)	120 - 180	min	
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 160°F (71°C).			

NOTE	
1.	Part A
2.	Part B
3.	100g mass
4.	Part A
5.	Part B

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

WECHAT