BJB Polyurethane TC-8750 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

TC-8750 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-8750 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-8750 A/B are particularly suitable for mining and mineral process industries.
Product Highlights:
Exceptionally tough, abrasion resistant, high impact material
Contains no MDI, MDA, OR MOCA
Easy to handle
Room temperature mixing and curing

General Information			
Features	Ultra-high impact resistance Ultra high toughness Good wear resistance		
Uses	Abrasion Resistant Liners Gear Roller 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	
--	1.13	g/cm³	ASTM D792
Shrinkage	0.20	%	ASTM D2566
Gel Time	20.0	min	
Work Time [3] (25°C)	15.0	min	
Cure Time (25°C)	5.0 - 7.0	day	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	50 - 60		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus	173	MPa	ASTM D790

Flexural Strength	6.69	MPa	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	20.7	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Tear Strength	105	kN/m	ASTM D624
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: 30, mixing ratio by capacity: 29		
Shelf Life (25°C)	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C [4]	4750	cP	Brookfield
25°C [5]	250	cP	Brookfield
25°C	4000	cP	Brookfield
Demold Time (25°C)	240 - 360	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

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