BJB Polyurethane TC-8745 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

TC-8745 A/B is a two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for the casting of highly wear-resistant production parts and linings. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain mercury, MDI, MDA, or MOCA. TC-8745 A/B is relatively insensitive to typical environmental moisture and will make good 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-8745 A/B are particularly suitable for mining and mineral process industries.
Product Highlights:
Exceptional abrasion and impact resistant
Contains no mercury, MDI, MDA or MOCA
Easy to handle
Room temperature mixing and curing

General Information			
Features	Ultra high toughness Impact resistance, high Good wear resistance Good wear resistance		
Uses	Abrasion Resistant Liners Industrial components Mining application		
Appearance	Translucent Yellow		
Processing Method	Casting		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
-- [1]	1.06	g/cm³	
-- [2]	1.11	g/cm³	
--	1.12	g/cm³	ASTM D792
Shrinkage	0.15	%	ASTM D2566
Gel Time	40.0	min	
Work Time [3] (25°C)	20.0	min	
Cure Time (25°C)	5.0 - 7.0	day	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	35 - 45		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	12.3	MPa	ASTM D638
Tensile Strength (Yield)	23.0	MPa	ASTM D638

Tensile Elongation (Break)	650	%	ASTM D638
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength	62.2	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: 75, mixing ratio by capacity: 79		
Shelf Life (25°C)	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C [4]	11600	cP	Brookfield
25°C [5]	950	cP	Brookfield
25°C	4500	cP	Brookfield
Demold Time (25°C)	480 - 600	min	
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Note: Reported physical properties base on elevated temperature cured test specimens.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 B
2.	Part A
3.	100g mass
4.	Part A
5.	Part B

Recommended distributors for this material

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