BJB Polyurethane TC-9462 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

TC-9462 A/B is a two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for use in the casting of highly wear-resistant parts and linings. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, MDA, or MOCA. TC-9462 A/B is relatively insensitive to typical environmental moisture and will make good void-free parts. Because of this product's exceptional toughness and abrasion resistance, castings made with TC-9462 A/B are particularly suitable for mining and mineral process industries.
FEATURES:
High impact resistance
Low viscosity
Exceptionally tough, abrasion resistant
Contains no TDI, MDI, MDA, or MOCA
Easy to handle
Room temperature mixing and curing
Mercury free

General Information			
Features	Ultra high toughness Low viscosity Impact resistance, high Good wear resistance Good wear resistance		
Uses	Abrasion Resistant Liners Mining application		
Appearance	Amber Clear/transparent		
Forms	Liquid		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
-- [1]	1.05	g/cm³	ASTM D792
-- [2]	1.09	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.20	%	ASTM D2566
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	55 - 65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	151	MPa	ASTM D638
Tensile Strength	34.5	MPa	ASTM D638
Tensile Elongation (Break)	530	%	ASTM D638
Flexural Modulus	330	MPa	ASTM D790

Flexural Strength	13.3	MPa	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength	102	kN/m	ASTM D624
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	750	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: 60, mixing ratio by capacity: 58		
Shelf Life	26	wk	
Thermoset Mix Viscosity			ASTM D2393
25°C [3]	200	cP	ASTM D2393
25°C [4]	6650	cP	ASTM D2393
25°C	2450	cP	ASTM D2393
Demold Time (25°C)	240 - 300	min	
Post Cure Time (71°C)	16	hr	
Gel Time	25.0	min	Internal method
Work Time [5] (25°C)	15.0	min	Internal method

Additional Information

Most of the physical properties can be achieved in 5-7 days at ambient temperature, 77°F (25°C). 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.	Part B
4.	Part A
5.	100 g mass

Recommended distributors for this material

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