

BJB Polyurethane TC-9445 A/B

Polyurethane
BJB Enterprises, Inc.

Message:

TC-9445 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-9445 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-9445 A/B are particularly suitable for mining and mineral process industries.

Product Highlights:

- 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	Good Abrasion Resistance		
	Good Toughness		
	High Impact Resistance		
	Low Viscosity		
Uses	Industrial Applications		
	Liners		
Appearance	Amber		
	Clear/Transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Specific Gravity			
Part A	1.047	g/cm ³	ASTM D2566
Part B	1.097	g/cm ³	
Shrinkage	0.15	%	
Demold Time (25°C)	6.0 to 8.0	hr	ASTM D2566
Gel Time	40.0	min	
Work Time (25°C) ¹	25.0	min	
Brookfield Viscosity			
Mixed : 25°C	1.27	Pa·s	ASTM D2566
Part A : 25°C	6.64	Pa·s	

Part B : 25°C	0.125	Pa·s	
Molding Shrinkage - Flow	0.15	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40 to 50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	126	MPa	ASTM D412
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	11.4	MPa	
200% Strain	16.2	MPa	
Tensile Strength (Yield)	19.3	MPa	ASTM D412
Tensile Elongation (Break)	350	%	ASTM D412
Tear Strength	52.0	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 96, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Shelf Life	26	wk	
NOTE			
1.	100g mass		

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