

BJB Polyurethane TC-644 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

Designed to replace TC-640 A/B, TC-644 A/B has vastly improved physical properties without the use of any mercury containing products. Typical product uses are skin membranes for animated characters, mold fabrication, potting compound applications, and resilient urethane rubber like parts of all types.

Non-mercury
Excellent mechanical properties
Multi-purpose elastomer that can perform many functions

General Information			
Features	Aliphatic		
	Resilient		
Uses	Membranes		
	Molds/Dies/Tools		
Appearance	Clear Amber		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.03	g/cm ³	ASTM D792
--	1.07	g/cm ³	
-- ²	1.13	g/cm ³	
Molding Shrinkage - Flow	0.10	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50 to 60		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	1.03	MPa	
200% Strain	1.90	MPa	
300% Strain	2.69	MPa	
Tensile Strength (Yield)	5.83	MPa	ASTM D412
Tensile Elongation (Break)	430	%	ASTM D412
Tear Strength	16.6	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 50, Mix Ratio by Volume: 45		
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Shelf Life (25°C)	26	wk	

Thermoset Mix Viscosity		ASTM D2393
25°C ³	850	cP
25°C ⁴	550	cP
25°C ⁵	930	cP
Demold Time (25°C)	120 to 180	min
Post Cure Time (71°C)	16	hr
Gel Time	9.0 to 10.0	min
Work Time ⁶ (25°C)	7.0 to 8.0	min

NOTE		
1.	Part B	
2.	Part A	
3.	Part B, Brookfield	
4.	Part A, Brookfield	
5.	Mixed, Brookfield	
6.	100 g mass	

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

