

BJB Polyurethane ST-1075 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

ST-1075 A/B is a tough, multi-purpose polyurethane elastomer, useful for many applications and performance requirements.

Special product characteristics are as follows:

Does not contain MOCA, MDA, or MDI

Very easy to use; may be pigmented easily

Cures at room temperature

High tear strength and toughness

Hardness and durability similar to high grade vulcanized rubber

General Information			
Features	High strength		
	Good tear strength		
	Good toughness		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.06	g/cm ³	
-- ²	1.09	g/cm ³	
--	1.10	g/cm ³	ASTM D792
Shrinkage	0.80	%	ASTM D2566
Work Time ³ (25°C)	35.0	min	
Cure Time (25°C)	5.0 - 7.0	day	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70 - 80		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	4.48	MPa	ASTM D412
200% strain	5.65	MPa	ASTM D412
300% strain	6.76	MPa	ASTM D412
Tensile Strength (Break)	11.0	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength	33.3	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: 45, mixing ratio by capacity: 46		
Shelf Life (25°C)	26	wk	
Thermoset Mix Viscosity			Brookfield

25°C ⁴	6700	cP	Brookfield
25°C ⁵	1060	cP	Brookfield
25°C	3000	cP	Brookfield
Demold Time (25°C)	480 - 840	min	
Additional Information	Nominal Value	Unit	Test Method

Note: Physical properties obtained from test specimens post cured per recommended procedure. 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

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

