

BJB Polyurethane ST-3050 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

ST-3050 is a multi-purpose elastomer system that can perform many functions. Product characteristics are:
Cures at room temperature to produce a strong, resilient elastomer
Easy to use
Exudate and volatile free.
Maintains a dry, tack free surface after cure

General Information			
Features	Good strength		
	No exudation		
	No stickiness		
	Elastic		
RoHS Compliance	RoHS compliance		
Appearance	Yellow		
	Clear/transparent		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.05	g/cm ³	
-- ²	1.08	g/cm ³	
--	1.07	g/cm ³	ASTM D792
Shrinkage	0.60	%	ASTM D2566
Gel Time	25.0	min	
Work Time ³ (25°C)	20.0	min	
Cure Time	5.0 - 7.0	day	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	45 - 55		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ⁴ (Break)	> 8.27	MPa	ASTM D412
Tensile Elongation ⁵ (Break)	> 1400	%	ASTM D412
Tear Strength	32.4	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: 50, mixing ratio by capacity: 49		
Shelf Life (25°C)	26	wk	

Thermoset Mix Viscosity			Brookfield
25°C ⁶	450	cP	Brookfield
25°C ⁷	3700	cP	Brookfield
25°C	2600	cP	Brookfield
Demold Time (25°C)	180 - 240	min	
Additional Information	Nominal Value	Unit	Test Method

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. 100g mass
4. Test specimens exceed travel distance of testing equipment.
5. Test specimens exceed travel distance of testing equipment.
6. Part B
7. Part A

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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



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