

BJB Polyurethane WC-575 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

WC-575 A/B is a two-part, clear, colorless aliphatic-based polyurethane elastomer. It is recommended for use whenever a flexible, permanently transparent elastomer is required. It is UV light and oxidation resistant and can be easily tinted or pigmented to clean bright colors. WC-575 A/B does not contain MOCA, TDI, or MDA. In addition to being an excellent castable product, it also functions well as an adhesive for bonding various substrates.

General Information			
Features	Good UV resistance		
	Good flexibility		
	Good coloring		
	Definition, high		
	aliphatic		
Uses	Adhesive		
RoHS Compliance	RoHS compliance		
Appearance	Clear/transparent		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	1.03	g/cm ³	ASTM D792
-- ²	1.07	g/cm ³	ASTM D792
--	1.06	g/cm ³	ASTM D792
Specific Volume	0.947	cm ³ /g	
Gel Time	25.0	min	
Work Time ³ (25°C)	15.0	min	
Cure Time (25°C)	5.0 - 7.0	day	
Molding Shrinkage - Flow	0.60	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	65 - 75		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	9.45	MPa	ASTM D412
Tensile Elongation (Break)	300	%	ASTM D412
Tear Strength	11.6	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: 90, mixing ratio by capacity: 94		
Shelf Life	26	wk	

Thermoset Mix Viscosity			Brookfield
25°C ⁴	300	cP	Brookfield
25°C ⁵	4730	cP	Brookfield
25°C	1050	cP	Brookfield

Demold Time			
25°C ⁶	240	min	
25°C ⁷	360	min	

Additional Information	Nominal Value	Unit	Test Method
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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 130-160°F (54-71°C).

NOTE

1.	Part B
2.	Part A
3.	100g mass
4.	Part B
5.	Part A
6.	in larger mass
7.	0.25 inch thick

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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

