

Product Name

WC-595 A/B

Water Clear Aliphatic Polyurethane Elastomer



Product Description

WC-595 A/B is a two-part, clear, 90 Shore A polyurethane elastomer. It is recommended for use wherever a tough, flexible, permanently transparent elastomer is required. It can be easily tinted and will retain its color provided color stable colorants are used.

WC-595 A/B does not contain MOCA, MDA or TDI. In addition to being an excellent castable product, it is an excellent solvent-free adhesive for bonding various plastic substrates.

Physical Properties

Hardness	Shore A	ASTM D-2240	90 ± 5
Density	g/cc	ASTM D-792	1.03
Cubic Inches Per Pound			26.4
Color/Appearance			Colourless/Clear
Tensile Strength	psi	ASTM D-412	4,000
Tear Strength	pli	ASTM D-624	375
Shrinkage	in/in linear	ASTM D-2566	0.005
Elongation	%	ASTM D-412	180

Handling Properties

Mix Ratio	by weight	Part A	100 pbw
		Part B	90 pbw
Mix Ratio	by volume	Part A	100 pbv
		Part B	93 pbv
Specific Gravity	g/cc	Part A	1.07
		Part B	1.03
Viscosity	cps @ 25°C Brookfield	Part A	2,400
		Part B	350
		Mixed	900
Colour		Part A	Colorless
		Part B	Colorless
Work Time	@ 25°C		15 minutes
Gel Time			20 minutes
Demold Time	@ 25°C		6 hours, ¼" thick; 4 hours in larger mass

Cure Schedule/Heat Curing

Most of the physical properties can be achieved in 5-7 days at ambient temperature, 25°C. In order to achieve maximum physical properties, a post cure with heat is required. BJB recommends 24 hours at ambient temperature, 25°C, followed by 16 hours at 71°C.

Storage

Store in a cool dry place. Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at room temperatures. Purge opened containers with dry nitrogen before re-sealing.

Notes

The cure will be inhibited if cast against a tin catalyzed silicone RTV.

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Revision Number

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Disclaimer

The data presented in this leaflet are in accordance with the present state of our knowledge, and does not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the product for a particular purpose.

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