WC-595 A/B
WATER CLEAR 90 SHORE A POLYURETHANE ELASTOMER

RoHS

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 is UV light and oxidation resistant and can be easily tinted or pigmented to clean bright colors. WC-595 A/B does not contain MOCA, MDA or TDI. In addition to being an excellent castable product, it also functions well as an adhesive for bonding various substrates.

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Hardness, Shore A	ASTM D2240	90 ± 5
Density (g/cc)	ASTM D792	1.03
Cubic Inches per Pound	N/A	26.4
Color/Appearance	Visual	Colorless/Clear
Tensile Strength (psi)	ASTM D412	4,000
Elongation (%)	ASTM D412	180
Tear Strength (pli)	ASTM D624	375
Shrinkage (in/in) linear	ASTM D2566	0.005

Note: Reported physical properties are based on test specimens cured at an elevated temperature, 160ºF (71°C.)

HANDLING PROPERTIES	Part A	Part B
Mix Ratio by weight	100	90
Mix Ratio by volume	100	93
Specific Gravity @ 77°F (25°C)	1.07	1.03
Color	Colorless	Colorless
Viscosity (cps) @ 77°F (25°C) Brookfield	2,400	350
Mixed Viscosity (cps) @ 77°F (25°C) Brookfield	900	
Work Time, 100g mass @ 77°F (25°C)	15 minutes	
Gel Time	20 minutes	
Demold Time @ 77°F (25°C)	6 hours, ¼" thick; 4 hours in larger mass	

Properties above are typical and not for specifications.

For more information call BJB Enterprises, Inc. (714) 734-8450 Fax (714) 734-8929
www.bjbenterprises.com

CURE SCHEDULE/HEAT CURING:

Most of the physical properties can be achieved in 5-7 days at 77ºF (25ºC). You may use your own post-cure schedule but the physical properties may vary from BJB's cure schedule of 1-3 hours at 77ºF (25ºC) followed by 16 hours at 160 ºF (71). Do not exceed curing temperatures of 200ºF (93ºC).

If you are using heat to accelerate the demold time, allow the part to cool down to ambient temperature before demolding.

NOTE:

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

STORAGE:

Store at ambient temperatures, 65-80ºF (18-27ºC). Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at recommended temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING	Part A	Part B	Cubic Inches per Kit
Quart Kits	2 lbs.	1.8 lbs.	100
Gallon Kits	8 lbs.	7.2 lbs.	401
5-Gallon Kits	40 lbs.	36 lbs.	2,006
55-Gallon Drum Kits	400 lbs.	360 lbs.	20,064

SAFETY PRECAUTIONS:

Avoid contact with skin using protective gloves and protective clothing. Repeated or prolonged contact on the skin may cause an allergic reaction. Eye protection is extremely important. Always use approved safety glasses or goggles when handling this product. Use in well-ventilated areas. Avoid breathing vapors. If exposures cannot be kept at a minimum, a respirator may be necessary in addition to ventilation. The use of a positive pressure air supplied respirator is mandatory when airborne isocyanate concentrations are "not known" or exceeds OSHA'S TWA of 0.005 ppm. Air purifying, organic cartridge type respirators are not generally recommended to use when handling this material without implementation of an end of life service program. Observe OSHA regulations for respirator use (29 CFR 1910.134). Employers are responsible for selecting the correct respirator for each situation.

IF CONTACT OCCURS:

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. It is *not* recommended to remove resin from skin with solvents. Solvents only increase contact and dry skin. Seek qualified medical attention if allergic reactions occur.

Eyes: Immediately flush with water for at least 15 minutes. Call a physician.

Ingestion: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

Refer to the Material Safety Data Sheet before using this product.

Handling Guide

WC-595 Part A SDS

WC-595 Part B SDS