

ALIPHATIC & WATER CLEAR URETHANES

"Dedicated to QUALITY, SERVICE, SAFETY, and INNOVATION"

WC-756 A/B WATER CLEAR 55 SHORE D POLYURETHANE CASTING SYSTEM



Date: 04/11/2016

WC-756 A/B is a two part, clear, 55 Shore D castable urethane that is commonly used to make clear or tinted parts of all kinds. When used at room temperature, castings 1/4" thick or larger can be readily cast. Castings that are less than 1/4" thick generally require a mild post-cure.

Exceptional clarity

• Impact resistant

• 15 minute work time

• No odor

Good weatherability

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Hardness, Shore D	ASTM D2240-04e1	55 ± 5
Density (g/cc)	ASTM D792-00	1.07
Cubic Inches per Pound	N/A	26.6
Color/Appearance	Visual	Colorless/Clear
Tensile Strength (psi)	ASTM D638-03	2,135
Tensile Modulus (psi)	ASTM D638-03	1.42 x 10 ⁴
Elongation (%)	ASTM D638-03	715
Flexural Strength (psi)	ASTM D790-03	485
Flexural Modulus (psi)	ASTM D790-03	2.06 x 10 ⁴
Tear Strength (pli)	ASTM D624-00e1	287
Shrinkage (in/in) linear	ASTM D2566	0.0086
Izod Impact, notched (ft-lb/in)	ASTM D256-05	16.5
Dielectric Constant, 1 MHz	ASTM D150-87	3.508
Dissipation Factor, 1 MHz	ASTM D150-87	0.0459

HANDLING PROPERTIES	Part A	Part B	
Mix Ratio by weight	65	100	
Mix Ratio by volume	62	100	
Specific Gravity @ 77°F (25°C)	1.08	1.02	
Color	Colorless	Colorless	
Viscosity (cps) @ 77°F (25°C) Brookfield	650	675	
Mixed Viscosity (cps) @ 77°F (25°C) Brookfield	850		
Work Time, 100g mass @ 77°F (25°C)	15 minutes		
Gel Time	25 minutes		
Demold Time @ 77°F (25°C)	16 – 24 hours		

Properties above are typical and not for specifications.

CURE SCHEDULE/HEAT CURING:

Most of the physical properties can be achieved in 5-7 days at 77°F (25°C). You may use your own post-cure schedule but the physical properties may vary from BJB's cure schedule of 1-3 hours at 77°F (25°C) followed by 16 hours at 160 °F (71). Do not exceed curing temperatures of 200°F (93°C). Support of the part may be required to prevent part deformation during the heat curing process.

NOTE:

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

STORAGE AND HANDLING:

Store at ambient temperatures, 65-80°F (18-27°C). 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 Pound
Gallon Kits	5.2 lbs.	8 lbs.	351
5-Gallon Kits	26 lbs.	40 lbs.	1,756
55-Gallon Drum Kits	260 lbs.	400 lbs.	17,556

SAFETY PRECAUTIONS:

Avoid contact with skin. Use 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-756 Part A SDS



WC-756 Part B SDS

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Quality Management System Registered to ISO 9001:2008

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