

Product Technical Datasheet

BC-8400 Urethane Elastomer

(White and Blue)

BC8400 is an unfilled, low viscosity, quick setting two component urethane system. An easy to use 1 to 1 mix ratio (Part A/Part B), BC8400 offers the user a 3 minute working time with parts demoldable in as little as 30 minutes. When properly cured, BC 8400 will exhibit high impact strength and yield thermoplastic-like parts. Some outstanding features include the following:

- Mercury free
- Moderate heat resistance
- 1 to 1 mix ratio
- Turns white upon cure
- Longer mold life
- High impact strength
- No objectionable odor
- Excellent finishing properties
- Thermoplastic appearance
- More parts per day

Working Properties

Mix Ratio (Part A/Part B)	100 to 100 by wt. 100 to 100 by vol.
Viscosity (ASTM D 2393-71)	
Part A	64 cps
Part B	480 cps
Mixed	190 cps
Color	
Part A	Amber
Part B	Opaque
Gel Time (200 gms) ASTM D 2471-71	3 Minutes
Demold Time @ 77°F (25° C)	30 – 60 Minutes

Physical Properties

Specific Gravity (ASTM D 792-66)	1.09
Cu. in./lb.	25.4
Hardness Shore D ASTM D 2240-66	75 ± 3
Color (Cured)	White
Ultimate Tensile Strength (ASTM D 638)	5,326 psi
Elongation (%) ASTM D 638	13.1
Ultimate Flexural Strength ASTM D 790	8,770

Flexural Modulus ASTM 790	250,900
Impact Strength ASTM D 256 Izod Notched (ft. lbs./in.)	1.34
Deflection Temperature ASTM D 648	
7 days @ room temp.	145°F
24 hrs @ room temp. + 1 hr @ 150°F	166°F
Linear Shrinkage ASTM D 2566 (in./in.)	.0025

DISCLAIMER: The information in this bulletin and otherwise provided by Polytek® Development Corp. is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained by the use thereof, or that any such use will not infringe any patent. Before using, the user shall determine the suitability of the product for the intended use and user assumes all risk and liability whatsoever in connection therewith.

2140 Earlywood Drive, Franklin, IN 46131
Ph (317) 736-4090 Fax (317) 736-4872
Web: www.bccproducts.com and www.polytek.com

2/7/2020