



POLYTEK® DEVELOPMENT CORP.
BCC PRODUCTS, INC.

Product Technical Datasheet BC-8165 Urethane Elastomer

BC-8165 is a low viscosity, rapid setting, rigid urethane compound. Similar to BC-8163, however exhibits an 8 to 10 minute working time. This system will cure quickly to a hard, tough, impact resistant casting. BC-8165 is non-sensitive to moisture after cure and will readily bond to itself if stage pours are required. BC-8165 is recommended for thin wall model and prototype applications where a "thermoplastic feel" is desired. The heat resistance for BC-8165 is 135°F, a heat resistance of 150°F can be achieved by post cure at 150°F for about 2 hours.

Working Properties

Mix Ratio (Part A/Part B)	100 to 80 by wt. 100 to 87 by vol.
Viscosity (Brookfield @ 75°F)	Part A: 36 cps Part B: 640 cps Mixed: 230 cps
Color	Part A: Light Amber Part B: Translucent
Pot Life (1 lb. mass) @ 75°F	8-10 minutes
Demold time, 75° F	1 - 2 hours*
Final Cure, 75° F	7 days

Physical Properties

Specific Gravity (gms/cc), Cured	1.07
Cubic Inches per Pound	26
Hardness (Shore D) @ 75°F	83±2
Linear Shrinkage (ASTM D2566)	0.001 in./in.
Ultimate Tensile Strength (ASTM D638)	5,800 psi
Ultimate Flexural Strength (ASTM D790)	7,650 psi
Elongation % (ASTM D 638)	2.4 %
Flexural Modulus (ASTM 790)	0.21 x 10 ⁶

*Dependent upon thickness of casting.

The above figures are averages and are not intended for specification purposes.

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

1/27/2020