



POLYTEK® DEVELOPMENT CORP.
BCC PRODUCTS, INC.

Technical Data Sheet BC-7062 Epoxy

BC-7062 are aluminum filled, low viscosity epoxy mass casting resins. These room temperature cure systems allow the user choice thicknesses of 1/8 inch to a maximum of 6 inches without foaming or yielding excessive shrinkage. Casting thicknesses may be increased by incorporating aluminum needles, puffs or granules. BC-7062, when properly cured, provides nearly perfect reproduction, resulting in a dimensionally stable, hard, tough surface. For use in constructing duplicate models, prototypes, patterns, facing dies, etc.

Working Properties

	BC7062R BC7062H	BC7062R BC7062-2H	BC7062R BC7062-3H
Mix Ratio (Resin/Hardener)			
by weight	12 to 1	9 to 1	6 to 1
by volume	6.5 to 1	4.6 to 1	2.9 to 1
Viscosity (Mixed), cps Brookfield @ 75° F	5,400	7,000	3,800
Pot Life (2 lb. mass) @ 75° F in minutes	50-60	70-80	240+
Casting Thickness	1/8-3/4	3/4-2	2-6
Demold time in hours	12-18	24-30	48+

Cure Schedule

Full cure can be achieved by allowing casting (after demold) to rest for 5 days at 75° F. As an alternative, cure may be accelerated by a mild post cure @ 150° F for 3-4 hours.

Physical Properties

	BC7062R BC7062H	BC7062R BC7062-2H	BC7062R BC7062-3H
Specific Gravity (gms/cc)	1.85	1.81	1.72
Weight/cu.in. (lbs.)	0.067	.066	.062
Cu. In./lb	15	15.3	16.1
Hardness (Shore D) @ 75° F	86	86	85
Heat Distortion Temperature (°F)	134	130	127
Tensile Strength (Ultimate) psi	5,300	4,900	4,500
Flexural Strength (Ultimate) psi	8,800	8,100	7,200
Compressive Strength (Ultimate) psi	14,400	13,700	11,000

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Linear Shrinkage (ASTM-D-2566) in/in	.0012	.002	.0027
Thermal Coefficient of Expansion in./in./°F	3.2×10^{-5}	3.7×10^{-5}	4.2×10^{-5}
Machinability	Excellent	Excellent	Excellent

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.

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