



BCC PRODUCTS, INC.

BLEHM PLASTICS

FAST CAST – EPOXIES – ADHESIVES - POLYSULFIDES - URETHANES – POLYESTER PASTES – TOOLING BOARDS – RELEASE AGENTS – SILICONES

EPOXY CASTING

(Aluminum)

BC7062

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.

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EPOXY CASTING

BC7062

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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
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

NOTE: The information contained herein is believed to be reliable. All recommendations are made without guarantee inasmuch as conditions and methods of commercial use are beyond our control. Properties given are typical values and are not intended for use in preparing specifications.

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