

# BCC Resins BC 7069-1

Epoxy; Epoxide

BCC Products Inc.

## Message:

BC 7069-1 is an aluminum filled, epoxy mass casting resin. This room temperature cure system may be cast to a thickness of ¾ inch in non-conductive molds and one inch in metal molds without foaming or yielding excessive shrinkage. Casting thickness can be increased by incorporating aluminum needles, puffs or granules. BC 7069-1 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.

General Information			
Filler / Reinforcement	Aluminum		
Features	Good Dimensional Stability		
	Good Toughness		
	High Hardness		
Uses	Molds/Dies/Tools		
	Prototyping		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.71	g/cm <sup>3</sup>	ASTM D792
--	1.72	g/cm <sup>3</sup>	ASTM D1505
Molding Shrinkage - Flow	0.020	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	88		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	44.8	MPa	ASTM D638
Flexural Strength (Break)	73.1	MPa	ASTM D790
Compressive Strength	103	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	55.0	°C	ASTM D648
CLTE - Flow	6.4E-5	cm/cm/°C	ASTM D696
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 10, Mix Ratio by Volume: 18		
Resin	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Pot Life (24°C)	80 to 90	min	
Thermoset Mix Viscosity (24°C)	11000	cP	ASTM D2393

Demold Time (24°C)

720 to 960

min

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#### Recommended distributors for this material

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