

# BCC Resins BC 7009-2

Epoxy; Epoxide

BCC Products Inc.

## Message:

BC 7009-2 is an iron filled, low-cost mass casting system. Recommended for use in casting a minimum of two inches and a maximum of six inches in non-conductive molds. Thicknesses to nine inches in metal or conductive-type molds can be successfully achieved as well. Ideal for stretch forms, patterns, dies, molds, duplications, prototypes, etc.

General Information			
Filler / Reinforcement	Iron		
Uses	Molds/Dies/Tools		
	Prototyping		
Appearance	Black		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	2.26	g/cm <sup>3</sup>	ASTM D792
--	2.27	g/cm <sup>3</sup>	ASTM D1505
Molding Shrinkage - Flow	0.090	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	37.2	MPa	ASTM D638
Flexural Modulus	5580	MPa	ASTM D790
Flexural Strength (Break)	51.0	MPa	ASTM D790
Compressive Strength	86.9	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	50.6	°C	ASTM D648
CLTE - Flow	5.7E-5	cm/cm/°C	ASTM D696
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 1.0, Mix Ratio by Volume: 1.0		
Resin	Mix Ratio by Weight: 12, Mix Ratio by Volume: 4.5		
Pot Life (24°C)	240	min	
Thermoset Mix Viscosity	35000	cP	ASTM D2393
Demold Time (24°C)	1400 to 2200	min	
Additional Information	Nominal Value	Unit	Test Method
Cure Temperature	24	°C	

Cure Time	1.0	day
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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

