

BCC Resins BC 7009-1

Epoxy; Epoxide

BCC Products Inc.

Message:

BC 7009-1 is an iron oxide filled, low-cost mass casting system. Thicknesses up to two inches in non-conductive molds, and four inches in conductive molds can be achieved without foaming or yielding excessive shrinkage. 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			
--	2.23	g/cm ³	ASTM D792
--	2.24	g/cm ³	ASTM D1505
Molding Shrinkage - Flow	0.10	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	87		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	42.7	MPa	ASTM D638
Flexural Strength (Break)	53.8	MPa	ASTM D790
Compressive Strength	102	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	58.9	°C	ASTM D648
CLTE - Flow	5.4E-5	cm/cm/°C	ASTM D696
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 10, Mix Ratio by Volume: 26		
Resin	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Pot Life (24°C)	90	min	
Thermoset Mix Viscosity (24°C)	20000	cP	ASTM D2393
Demold Time (24°C)	720 to 960	min	

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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

