

# BCC Resins BC 7136-2

Epoxy; Epoxide  
BCC Products Inc.

Message:

BC 7136-2 is an aluminum filled thick section casting system with heat resistance to 300°F. May be cast to a thickness of 2 inches in non-conductive molds, 3 inches in conductive molds, and thicker sections with the addition of bulk fill. For service temperature above 150°F a post-cure is required. Does not contain VCHD or MDA. BC 7136-2 is recommended for uses such as: RTM and RIM molds, matched dies, injection and compression molds, and constructing vacuum form tools.

BC 7136-2 can be removed from the mold after allowing to set 24 hours at room temperature (75°F). Post cure for applications requiring temperatures above 150°F can be accomplished in an oven or in use by a gradual heat rise; 2 hours @ 150°F, plus 2 hours @ 250°F, plus 2 hours @ 300°F.

General Information			
Filler / Reinforcement	Aluminum		
Features	High Heat Resistance		
Uses	Molds/Dies/Tools		
Appearance	Grey		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.67	g/cm <sup>3</sup>	ASTM D792
--	1.66	g/cm <sup>3</sup>	ASTM D1505
Molding Shrinkage - Flow	0.10	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	54.5	MPa	ASTM D638
Flexural Strength (Break)	61.4	MPa	ASTM D790
Compressive Strength	190	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	157	°C	ASTM D648
CLTE - Flow	3.6E-5	cm/cm/°C	ASTM D696
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 9.0, Mix Ratio by Volume: 16		
Resin	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Pot Life (24°C)	180	min	
Thermoset Mix Viscosity (24°C)	13500	cP	ASTM D2393
Demold Time	1400	min	

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#### Recommended distributors for this material

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