

BCC Resins BC 8165

Polyurethane

BCC Products Inc.

Message:

BC 8165 is a low viscosity, rapid setting, rigid urethane compound. Similar to BC 8163, however exhibits an 8 to 10 minute working time. This system will cure quickly to a hard, tough, impact resistant casting. BC 8165 is non-sensitive to moisture after cure and will readily bond to itself if stage pours are required. BC 8165 is recommended for thin wall model and prototype applications where a "thermoplastic feel" is desired.

General Information			
Features	Fast Cure		
	Good Impact Resistance		
	Good Toughness		
	High Hardness		
	Low Viscosity		
Uses	Modeling Material		
Appearance	White		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	40.0	MPa	ASTM D638
Tensile Elongation (Break)	2.4	%	ASTM D638
Flexural Modulus	1450	MPa	ASTM D790
Flexural Strength (Break)	52.7	MPa	ASTM D790
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 80, Mix Ratio by Volume: 87		
Resin	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Pot Life (24°C)	8.0 to 10	min	
Thermoset Mix Viscosity (24°C)	230	cP	ASTM D2393
Demold Time (25°C)	60 to 120	min	

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