

BCC Resins BC 8163

Polyurethane

BCC Products Inc.

Message:

BC 8163 is a very low viscosity, rapid setting, rigid urethane compound. This system will cure quickly to a hard, tough, impact resistant casting. BC 8163 is non-sensitive to moisture after cure and will readily bond to itself if stage pours are required. The one-to-one volume mix ratio makes the system readily adaptable for machine mixing and dispensing. BC 8163 is recommended in applications where a "thermoplastic feel" is desired.

General Information			
Features	Fast Cure		
	Good Impact Resistance		
	Good Toughness		
	High Hardness		
	Low Viscosity		
Uses	Modeling Material		
	Prototyping		
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	0.29	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	78		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	38.6	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	15200	MPa	ASTM D790
Flexural Strength (Break)	54.3	MPa	ASTM D790
Compressive Strength	27.5	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	57.2	°C	ASTM D648
CLTE - Flow	2.4E-4	cm/cm/°C	ASTM D696
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 96, Mix Ratio by Volume: 100		

Resin	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Pot Life (25°C)	2.0 to 2.5	min	
Thermoset Mix Viscosity	150	cP	ASTM D2393
Demold Time (25°C)	60	min	

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