

BCC Resins BC 8405

Polyurethane

BCC Products Inc.

Message:

BC 8405 is an unfilled, low viscosity, quick setting two component urethane system. An easy to use 1 to 1 mix ratio (Part A/Part B), BC 8405 offers the user a rationable working time of 15 minutes with parts demoldable in as little as 2 hours. When properly cured, BC 8405 will exhibit high impact strength and yield thermoplastic-like parts. Some outstanding features include the following: mercury free, moderate heat resistance, 1 to 1 mix ratio, turn white upon cure, longer mold life, high impact strength, no objectionable odor, excellent finishing properties, thermoplastic appearance, more parts per day.

General Information			
Features	Fast Cure		
	High Impact Resistance		
	Low Viscosity		
	Medium Heat Resistance		
Appearance	White		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Ultimate)	37.2	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	1830	MPa	ASTM D790
Flexural Strength (Break)	62.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	70	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.6	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Resin	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Pot Life	15	min	
Thermoset Mix Viscosity (24°C)	190	cP	ASTM D2393
Demold Time (25°C)	120 to 240	min	

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