

# BCC Resins DP-11-90

Polyurethane

BCC Products Inc.

## Message:

DP-11-90 is an unfilled, low viscosity, quick setting two component urethane system. An easy to use 1 to 1 mix ratio (Part A/Part B), DP-11-90 offers the user a 3 minute working time with parts demoldable in as little as 30 minutes. When properly cured, DP-11-90 will exhibit high impact strength and yield thermoplastic-like parts. Some outstanding features include the following:

Mercury free

High impact strength

Moderate heat resistance

No objectionable odor

1 to 1 mix ratio

Excellent finishing properties

Turns tan color upon cure

Thermoplastic appearance

Longer mold life

More parts per day

General Information			
Features	Good Surface Finish		
	High Impact Resistance		
	Low to No Odor		
	Low Viscosity		
	Medium Heat Resistance		
Appearance	Tan		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm <sup>3</sup>	ASTM D792
Specific Volume	0.910	cm <sup>3</sup> /g	
Heat Distortion			
@ 24 hr room temperature cure	63	°C	
@ room temperature cure + 1 hr @ 150°F	79	°C	
@ room temperature cure + 1 hr @ 200°F	88	°C	
Gel Time <sup>1</sup>	3.0	min	ASTM D2471
Molding Shrinkage - Flow	0.25	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72 to 78		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Elongation (Break)	11	%	ASTM D638
Flexural Modulus	2040	MPa	ASTM D790
Thermoset	Nominal Value	Unit	Test Method

Thermoset Components		
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100	
Part B	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100	
Thermoset Mix Viscosity	ASTM D2393	
-- <sup>2</sup>	300	cP
-- <sup>3</sup>	450	cP
-- <sup>4</sup>	176	cP
Demold Time (25°C)	30 to 60	min
NOTE		
1.	200 gms	
2.	Mixed	
3.	Part B	
4.	Part A	

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