

## BCC Products DP-11-90 Urethane Casting

Category : Polymer , Thermoset , Polyurethane, TS

### Material Notes:

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 features include the following: mercury free, moderate heat resistance, no objectionable odor, excellent finishing properties, turns tan color upon cure, and thermoplastic appearance. Information provided by BCC Products, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BCC-Products-DP-11-90-Urethane-Casting.php](http://www.lookpolymers.com/polymer_BCC-Products-DP-11-90-Urethane-Casting.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792-66
Brookfield Viscosity	176 cP	176 cP	Part A; ASTM D2393
	300 cP	300 cP	Mixed
	450 cP	450 cP	Part B
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	ASTM D2566

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72 - 78	72 - 78	ASTM D2240-68
Elongation at Break	11.2 %	11.2 %	ASTM D638
Flexural Modulus	2.042 GPa	296.2 ksi	

Thermal Properties	Metric	English	Comments
Heat Distortion Temperature	62.8 °C	145 °F	24 Hours at 75°F

Processing Properties	Metric	English	Comments
Cure Time	30.0 - 60.0 min	0.500 - 1.00 hour	demold time
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	3.0 min	3.0 min	gel time, 200g; ASTM 2471-71
	@Temperature 24.0 °C	@Temperature 75.2 °F	

Descriptive Properties	Value	Comments
Mix Ratio	1:1 by weight or volume	

Descriptive Properties	Value	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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