

## BCC Products BC 8782 Urethane Casting

Category : Polymer , Thermoset , Polyurethane, TS

### Material Notes:

BC 8782 produces a high impact rigid 82 Shore D material that is commonly used to make clear or tinted castings of all kinds. When used at room temperature castings 1/8" thick or larger can be readily cast. Castings that are less than 1/8" thick generally require a mild post-cure. This system is not recommended for use with tin cure silicones. Information provided by BCC Products, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BCC-Products-BC-8782-Urethane-Casting.php](http://www.lookpolymers.com/polymer_BCC-Products-BC-8782-Urethane-Casting.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	
Brookfield Viscosity	550 cP	550 cP	Part B
	650 cP	650 cP	Mixed
	600 cP	600 cP	Part A
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Linear Mold Shrinkage	0.00030 cm/cm	0.00030 in/in	ASTM D2566

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	ASTM D2240-68
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Tensile Strength, Ultimate	32.4 MPa	4700 psi	ASTM D638-82
Elongation at Break	7.0 - 10 %	7.0 - 10 %	ASTM D790
Tensile Modulus	>= 0.621 GPa	>= 90.0 ksi	5% strain; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	73.9 °C	165 °F	

Processing Properties	Metric	English	Comments
Cure Time	360 - 480 min	6.00 - 8.00 hour	demold time
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	7200 - 10080 min	120 - 168.0 hour	full cure
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	12 - 14 min	12 - 14 min	

Processing Properties	Metric	English	mass dependent Comments
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@ Temperature 24.0 °C

@ Temperature 75.2 °F

Descriptive Properties	Value	Comments
Mix Ratio	100:85 by weight, 100:88 by volume, resin/harder	

## Contact Songhan Plastic Technology Co.,Ltd.

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