

## BCC Products Proto-Kast BC 8163 Urethane Casting

Category : Polymer , Thermoset , Polyurethane, TS

### Material Notes:

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. Information provided by BCC Products, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BCC-Products-Proto-Kast-BC-8163-Urethane-Casting.php](http://www.lookpolymers.com/polymer_BCC-Products-Proto-Kast-BC-8163-Urethane-Casting.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	
Brookfield Viscosity	50 cP	50 cP	Part A
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	100 - 150 cP	100 - 150 cP	Part B
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Linear Mold Shrinkage	0.0029 cm/cm	0.0029 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	73 - 83	73 - 83	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Tensile Strength, Ultimate	38.6 MPa	5600 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D790
Flexural Strength	54.30 MPa	7875 psi	ASTM D790
Flexural Modulus	15.2 GPa	2200 ksi	ASTM D 790
Compressive Strength	27.48 MPa	3985 psi	
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	238 µm/m-°C	132 µin/in-°F	ASTM 696
Heat Distortion Temperature	57.2 °C	135 °F	ASTM D648

Processing Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Processing Properties	Metric	English	Comments
Cure Time	70.0 - 60.0 min	0.333 - 1.00 hour	demold time
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	10080 min	168.0 hour	full cure
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	2.0 - 2.5 min	2.0 - 2.5 min	1 lb. mass
	@Temperature 24.0 °C	@Temperature 75.2 °F	

Descriptive Properties	Value	Comments
Mix Ratio	100:96 by weight or 1:1 volume	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China