

BCC Products BC 8165 Urethane Casting

Category : Polymer , Thermoset , Polyurethane, TS

Material Notes:

BC 8165 is a low viscosity, rapid setting, rigid urethane compound. This system will cure quickly to a hard, tough, impact resistant casting. BC 8165 is non-sensitive to moisture after cure and will readily bond to itself if stage pours are required. BC 8165 is recommended for thin wall model and prototype applications where a "thermoplastic feel" is desired. The heat resistance for BC8165 is 135°F, a heat resistance of 150°F can be achieved by post cure at 150°F for about 2 hours. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-BC-8165-Urethane-Casting.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	
Brookfield Viscosity	640 cP	640 cP	Part B
	36 cP	36 cP	Part A
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	230 cP	230 cP	Mixed
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D2566

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81 - 85	81 - 85	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
Flexural Strength	52.7 MPa	7650 psi	ASTM D790
Flexural Modulus	1.45 GPa	210 ksi	ASTM D790

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min	1.00 - 2.00 hour	demold time
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	10080 min	168.0 hour	full cure
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	8.0 - 10 min	8.0 - 10 min	

Processing Properties	Metric @ Temperature 24.0 °C	English @ Temperature 75.2 °F	1 lb. mass Comments
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Descriptive Properties	Value	Comments
Mix Ratio	100:80 by weight, 100:87 by volume, resin/harder	

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