

BCC Products Kwik Kast BC 8645 Urethane Casting

Category : Polymer , Thermoset , Polyurethane, TS

Material Notes:

BCC Kwik Kast/Gray is a two component, fast setting polyurethane reproduction plastic. BC8645 has been reformulated to enhance filler suspension and avoid hard packing @ 77°F. Uses include; tracing models, core boxes, duplicating aids, patterns, prototypes, low temperature vacuum form tools, etc. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-Kwik-Kast-BC-8645-Urethane-Casting.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 - 1.90 g/cc	1.80 - 1.90 g/cc	ASTM D792-66
Brookfield Viscosity	2075 cP	2075 cP	#3 spindle @ 20 rpm; ASTM D2393
Linear Mold Shrinkage	0.00080 cm/cm	0.00080 in/in	ASTM D2566-69

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85 @Temperature 23.9 °C	85 @Temperature 75.0 °F	ASTM D2240
Tensile Strength, Ultimate	33.61 MPa	4875 psi	ASTM D638
Flexural Strength	43.1 MPa	6250 psi	
Compressive Strength	66.2 MPa	9600 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Heat Distortion Temperature	78.9 °C	174 °F	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min @Temperature 25.0 °C	1.00 - 2.00 hour @Temperature 77.0 °F	demold time
Pot Life	5.0 - 6.0 min @Temperature 25.0 °C	5.0 - 6.0 min @Temperature 77.0 °F	1 lb. mass

Descriptive Properties	Value	Comments
Mix Ratio	1:1 by weight or volume	
Wear Resistance (Tabor Method)	Very Good	

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