

BCC Products BC 8086 Urethane Casting

Category : Polymer , Thermoset , Polyurethane, TS

Material Notes:

BC 8086 is a rapid setting, low viscosity, polyurethane casting system. It exhibits a working life of 45 seconds and obtains a demoldable hardness at 7 - 10 minutes. Some of the features include: non-sensitive to moisture after cure, paintable (non oil base), will readily bond to itself, moderate heat resistance, excellent machinability and surface scribing, no settling components, and no premixing required. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-BC-8086-Urethane-Casting.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792-66
Brookfield Viscosity	200 - 400 cP @Temperature 23.9 °C	200 - 400 cP @Temperature 75.0 °F	Mixed; ASTM D2393
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	ASTM D2240
Tensile Strength, Ultimate	41.2 MPa	5980 psi	ASTM D638
Elongation at Break	6.4 %	6.4 %	ASTM D638-72
Flexural Strength	60.7 MPa	8810 psi	ASTM D790
Compressive Strength	44.5 MPa	6460 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Heat Distortion Temperature	58.3 °C	137 °F	24 Hours at 75°F
	62.8 °C	145 °F	7 Days at 75°F

Processing Properties	Metric	English	Comments
Cure Time	7.00 - 10.0 min @Temperature 25.0 °C	0.117 - 0.167 hour @Temperature 77.0 °F	demold time
Pot Life	0.750 min @Temperature 24.0 °C	0.750 min @Temperature 75.2 °F	Gel time, 4 oz. mass; ASTM D2471-71

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

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