

BCC Products DP-11-88 Urethane Adhesive

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Adhesive

Material Notes:

DP-11-88 is a medium viscosity quick setting easy to use urethane adhesive. This system was specifically designed to bond together the MB2001/MB3000 Model/Tooling Board to create desired dimensions in length, width, and height. Handling Properties: DP-11-88 Urethane Adhesive is a quick-setting, two part casting system which requires careful preparation prior to mixing parts A and B. Because DP-11-88 contains components having very low density, there will be some separation at the surface of the material in its container. Using a paint shaker, jiffy mixer, or mixing spatula, resuspension of the ingredients is easily accomplished. Precaution should be taken to prevent any moisture contamination from containers or utensils. It is recommended that the work area be well ventilated and normal cleanliness and safety rules be observed. Avoid prolonged exposure to vapors and contact with skin. Preparation of Mold Surface for Casting Applications: Clean the surface from dust and possible presence of moisture. Apply BC 87 Parting Agent and polish to a uniform high gloss finish (usually 2-3 coats are recommended). For wood surfaces, 2-3 coats of a quality sanding sealer is necessary. For plaster surfaces, seal with PVC sealer to ensure complete absence of moisture. For both wood and plaster surfaces, follow with 2-3 coats of BC 87 Parting Agent. Mixing and Pouring for Casting Applications: Pour weighted or measured amounts of Part A & B into a separate dry container by pouring Part A into Part B. Mix with a spatula or mechanical stirrer for 1 minute for quart size batches or 1 1/2 - 2 minutes for gallon batches. Immediately pour mixed resin uninterrupted from a convenient height above the mold cavity to resist air bubble entrapment. Clean the mixing tools by rinsing in an alcohol type solvent. Larger masses (2 feet or more) may be built up with successive pours. Castings may be demolded within 2 to 3 hours but should be properly supported while "green". Under normal conditions, maximum hardness or cure will be achieved in 12-18 hours. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-DP-11-88-Urethane-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.780 g/cc	0.780 g/cc	ASTM-D-792-66
Brookfield Viscosity	3000 cP	3000 cP	Part A; ASTM D2393
	3750 cP	3750 cP	Mixed, 1 minute; ASTM D2393
	4500 cP	4500 cP	Part B; ASTM D2393
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D2566-69

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240
Tensile Strength, Ultimate	14.9 MPa	2160 psi	ASTM-D-638
Flexural Strength	23.4 MPa	3400 psi	ASTM D790
Flexural Modulus	1.16 GPa	168 ksi	ASTM-D-790
Compressive Strength	19.13 MPa	2775 psi	ASTM D695

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	62.8 °C	145 °F	ASTM-D-648-56

Processing Properties	Metric	English	Comments
Cure Time	480 - 720 min @Temperature 24.0 °C	8.00 - 12.0 hour @Temperature 75.2 °F	demold time
Pot Life	10 - 12 min @Temperature 24.0 °C	10 - 12 min @Temperature 75.2 °F	12-14 minutes gel time, ASTM-D-2471, 1/2lb mass

Descriptive Properties	Value	Comments
Mix Ratio	1:1	

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