



BCC PRODUCTS, INC.

BLEHM PLASTICS

FAST CAST – EPOXIES – ADHESIVES - POLYSULFIDES - URETHANES – POLYESTER PASTES – TOOLING BOARDS – RELEASE AGENTS – SILICONES

URETHANE CASTING SYSTEM

Living Hinge Material

(LIGHT AMBER)

BC8160

Urethane

BC8160 is a low viscosity two-component urethane casting compound that is specifically formulated for its flexural and impact strength. It is recommended for use for the production casting of highly wear-resistant parts and prototypes. BC8160 can be used to develop thermoplastics type prototypes. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, or MOCA. **BC8160** is relatively insensitive to typical environmental moisture and will make good void-free parts without the problems that some conventional urethane systems exhibit.

Working Properties

Mix Ratio:

Resin Part A

100 parts by Weight

Curative Part B

60 parts by Weight

Mix Ratio (Resin/Hardener) by Volume

100 to 60

Viscosity, Centipoise (cps) @ 75EF

Mixed, @ 1.5 Min.

1400 - 1500

Work Life @ 75EF

18 ± 2 minutes

Color, Part A

Clear

Part B

Light Amber

Demold Time:

Normally 6 to 8 hours at ambient; can be reduced to 1 hour with moderately elevated temperatures and/or molds.

Cure Schedule: Full cure in 3 to 5 days at room temperature or 16 hours @ 150Φ to 180F.

Physical Properties

Specific Gravity (gm/cc) density

1.10

Cu. in./lb.

25.2

Hardness, Shore D

62 ± 2

Tensile Strength (psi) ASTM D-412

3,800 psi

Tensile Modulus (psi)

36,000

Shrinkage (in./in.)

0.0025

Color

Light Amber

Elongation (%) ASTM D-624

400

Tear Strength (pli) ASTM D-412

650

Flexural Strength (psi) ASTM D-790

3,700

Flexural Modulus (psi) ASTM D-790

78,000

2140 Earlywood Drive, P.O. Box 327, Franklin, IN 46131

Ph (317) 736-4090 Fax (317) 736-4872

Web: www.bccproducts.com & www.blehmplastics.com