



POLYTEK® DEVELOPMENT CORP.
BCC PRODUCTS, INC.

Product Technical Datasheet BC-8870 Amber Urethane Elastomer

BC-8870 is a low viscosity two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for use for the production casting of highly wear-resistant parts and linings. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, or MOCA. BC-8870 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
Viscosity, Centipoise (cps) @ 75°F	
Mixed, @ 1.5 Min.	1,800 - 2,000
Work Life @ 75°F	25±5 minutes
Color, Part A	Clear
Part B	Light Amber, or Black, or Red
Demold Time:	Normally 2 to 3 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 @ 150° to 180°F.

Physical Properties

Specific Gravity (gm/cc) density	1.10
Cu. in./lb.	25.2
Hardness, Shore D	70 ± 5
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

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Compression Set (method B) % ASTM D-395	42
Bayshore Rebound % ASTM D-575	48
Compressive strength at failure (psi)	9800

DISCLAIMER: The information in this bulletin and otherwise provided by Polytek® Development Corp. is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained by the use thereof, or that any such use will not infringe any patent. Before using, the user shall determine the suitability of the product for the intended use and user assumes all risk and liability whatsoever in connection therewith.

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