



POLYTEK® DEVELOPMENT CORP.
BCC PRODUCTS, INC.

Product Technical Datasheet BC-8860 Urethane Elastomer

BC-8860 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-8860 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.	1400 - 1500
Pour Time @ 75°F	15 minutes
Color, Part A	Clear
Part B	Light Amber, or Black, or Red
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 @ 150° to 180°F.

Physical Properties

Specific Gravity (gm/cc) density	1.10
Cu. in./lb.	25.2
Hardness, Shore D	60 ± 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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