

Baydur® 683

Polyurethane

Covestro - PUR

Message:

Baydur 683 is a rigid polyurethane structural foam system that is formulated for "hand cast" operations. It has a long open time to allow for adequate mixing and pouring without use of RIM machinery. The system can still be utilized with RIM equipment, however reactivity times are shortened accordingly. The system is supplied as two reactive components. Component A is a polymeric diphenylmethane diisocyanate (PMDI), and Component B is a formulated polyol system containing no CFC- or HCFC-blowing additives.

The Baydur 683 system is used for applications requiring high compression strength foams, filling cavities and/or producing foam cores for overmolding. As with any product, use of the Baydur 683 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information	
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Uses	Structural Foam Foam
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Forms	Liquid
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Processing Method	Reaction Injection Molding (RIM) Casting
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Physical	Nominal Value	Unit
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Density	0.0641	g/cm ³
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Mechanical	Nominal Value	Unit
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Compressive Modulus	24.4	MPa
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Compressive Strength	0.538	MPa
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Thermoset	Nominal Value
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Thermoset Components	
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Component a	Mixing ratio by weight: 140
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Component B	Mixing ratio by weight: 100
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Additional Information

Part A
Type: Isocyanate
Specific Gravity @ 25°C: 1.24 g/cm³
Viscosity @25°C: 200 cps
Part B
Type: Polyol
Appearance: Black liquid
Specific Gravity @ 25°C: 1.08 g/cm³
Viscosity @25°C: 900 cps
Hand Mix Reactivity:
Cream Time: 55 sec
Gel Time: 150 sec
Tack Free Time: 185 sec
Free Rise Density: 4 pcf

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