

Bayfill® EA 2003 (6 pcf)

Polyurethane (Polyether, MDI)

Covestro - PUR

Message:

Bayfill EA 2003 is a low-density, semirigid polyurethane foam system designed for automotive interior applications. It produces a friable foam which has the ability to absorb more energy in applications where space is limited. The Bayfill EA system is an excellent choice where occupant impact protection above the vehicle beltline is required or desired. Foams made with Bayfill EA 2003 can be incorporated into vehicle headliners and pillar covers for improved occupant protection in collisions. Because such foam is friable, it should be considered a sacrificial energy absorber and should be replaced after damage by an impact. The Bayfill EA 2003 system is supplied as two components. Component A is a polymeric diphenylmethane diisocyanate (PMDI) and Component B, is a polyether polyol system. As with any product, use of Bayfill EA 2003 system in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

General Information			
Features	Low density		
Uses	Foam		
	Application in Automobile Field		
	Car interior parts		
Physical	Nominal Value	Unit	
Molded Density	96.1	kg/m ³	
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D1621
10% strain	0.851	MPa	ASTM D1621
50% strain	0.914	MPa	ASTM D1621
70% strain	1.25	MPa	ASTM D1621
Thermoset	Nominal Value		
Thermoset Components			
Component a	Mixing ratio by weight: 250		
Component B	Mixing ratio by weight: 100		
Additional Information			

Part A
Type: Isocyanate
Appearance: Dark brown liquid
Specific Gravity @ 25°C: 1.24
Viscosity @25°C: 200 mPa-s
Flash Point PMCC: 199°C
Part B
Type: Polyol
Appearance: Yellow to amber viscous liquid
Specific Gravity @ 25°C: 1.03
Viscosity @25°C: 1600 mPa-s
Flash Point PMCC: 175°C
Material Temperature - Isocyanate (Component A): 24 to 27°C Material Temperature - Polyol (Component B): 27 to 29°C Mold Temperature: 54 to 60°C
Demold Time: >3 min Machine Reactivity at 29 to 32°C
Cream Time: 4 to 6 sec
Top of Cup Time: 11 to 13 sec
Gel Time: 18 to 22 sec
Rise Time: 42 to 47 sec
Free-Rise Density: 2.9 to 2.9 lb/ft³

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

