Bayfill® EA 2003 (5 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	80.1	kg/m³	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Compressive Strength			ASTM D1621
10% strain	0.617	MPa	ASTM D1621
50% strain	0.685	MPa	ASTM D1621
70% strain	0.976	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°CMaterial Temperature - Polyol (Component B): 27 to 29°CMold Temperature: 54 to 60°CDemold Time: >3 minMachine 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/ft^3

Recommended distributors for this material

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