

Bayfill® EA 6004 (6 pcf)

Polyurethane (Polyether, MDI)

Covestro - PUR

Message:

Bayfill EA 6004 is an energy-absorbing, semirigid polyurethane foam system designed for automotive interior applications. Foam made with Bayfill EA 6004 has a relatively low density and ability to recover its shape after impact making it an excellent choice for occupant impact protection above the vehicle beltline. The Bayfill EA 6004 system can be incorporated into vehicle headliners and pillar covers for improved occupant protection in collisions. The Bayfill EA 6004 system is supplied as two components. Component A is a modified polymeric diphenylmethane diisocyanate blend. Component B is a polyether polyol system. As with any product, use of the Bayfill EA 6004 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	
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Uses	Foam
	Application in Automobile Field
	Car interior parts

Physical	Nominal Value	Unit
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Molded Density	96.1	kg/m ³
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Mechanical	Nominal Value	Unit	Test Method
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Tensile Elongation (Break)	14	%	ASTM D638
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Compressive Strength			ASTM D1621
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10% strain	0.337	MPa	ASTM D1621
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50% strain	0.441	MPa	ASTM D1621
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70% strain	0.778	MPa	ASTM D1621
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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
Appearance: Dark brown liquid
Specific Gravity @ 25°C: 1.24
Viscosity @25°C: 320 cps
Flash Point PMCC: 213°C
Part B
Type: Polyol
Appearance: Colorless liquid
Specific Gravity @ 25°C: 1.04
Viscosity @25°C: 1600 cps
Flash Point PMCC: 199°C
Material Temperature - Isocyanate (Component A): 24 to 29°C Material Temperature - Polyol (Component B): 27 to 32°C Mold Temperature: 60 to 66°C Demold Time: >3 min Machine Reactivity at 29 to 32°C
Cream Time: 4 to 8 sec
Top of Cup Time: 11 to 13 sec
Gel Time: 20 to 24 sec
Rise Time: 54 to 58 sec
Free-Rise Density: 2.1 to 2.3 lb/ft³

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