

# Bayfill® EA 6004 (4 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

Uses	Foam
	Application in Automobile Field
	Car interior parts

Physical	Nominal Value	Unit
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Molded Density	64.1	kg/m <sup>3</sup>
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Mechanical	Nominal Value	Unit	Test Method
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Tensile Elongation (Break)	18	%	ASTM D638
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Compressive Strength			ASTM D1621
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10% strain	0.182	MPa	ASTM D1621
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50% strain	0.298	MPa	ASTM D1621
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70% strain	0.548	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/ft<sup>3</sup>

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