Bayfill® NV 100

Polyurethane (Polyether, MDI)

Covestro - PUR

Message:

Bayfill NV 100 acoustic cavity-filling foam is a two-component polyurethane system designed to fill and acoustically seal cavities of automobile body shells. The Bayfill NV 100 acoustic cavity-filling foam system can be processed on both high- and low-pressure equipment. It is poured at a 1:1 ratio, providing excellent mix even on low-pressure equipment and an excellent shot-to-shot repeatability. Comparable low concentrations of residual MDI and low foam surface temperatures allow for safer dispense operations. As with any product, use of the Bayfill NV 100 acoustic cavity-filling foam system in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.
The Bayfill NV 100 acoustic cavity-filling foam system is supplied as two components. Component A is a modified polymeric diphenylmethane diisocyanate blend. Component B is a polyether polyol system.

General Information	
Uses	Foam
	Application in Automobile Field

Mechanical	Nominal Value	Unit	Test Method
Compressive Strength (10% Strain)	0.0269	MPa	ASTM D1621
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate	71	mm/min	FMVSS 302
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Thermoset Components			
Component a	Mix Ratio by Weight: 1.0, Mix Ratio by Volume: 1.0		
Component B	Mixing ratio by weight: 1.0, mixing ratio by capacity: 1.2		
Shelf Life (25°C)	26	wk	
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Dimensional Stability, Volume Change			MSCD 643
38°C [1]	-3.5	%	MSCD 643
120°C [2]	-0.060	%	MSCD 643
24 hr : 120°C	-1.7	%	MSCD 643
Dimensional Stability, Weight Change [3]	0.91	%	MSCD 643
Dispensed Weight Loss		%	MSCD 643
Heat Aged Weight Loss - 24 hr (80°C)		%	MSCD 643

Part A
Type: Isocyanate
Appearance: Dark brown to black liquid
Specific Gravity @ 25°C: 1.24
Viscosity @25°C: 700 mPa-s
Flash Point PMCC: 213°C
Part B
Type: Polyol
Appearance: Opaque white liquid
Specific Gravity @ 25°C: 1.04
Viscosity @25°C: 2050 mPa-s
Flash Point PMCC: 115°C
Material Temperature: 140°FMachine Reactivity at 35°C
Gel Time: <3 sec
Rise Time: <6 sec
Tack-Free Time: <9 sec
Free-Rise Density: 1.6 lb/ft^3
Foam Surface Exotherm: <58°CFoam Core Exotherm: <110°CVolumetric Expansion: 4500%

NOTE	
1.	168 hr, 100% RH
2.	15 min, 20 min after foaming
3.	during humid aged test

Recommended distributors for this material

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