Bayfill® 382 (58.8:100)

Polyurethane (MDI)

Covestro - PUR

Message:

Bayfill 382 is a semi-rigid polyurethane foam system designed for automotive interior applications. The Bayfill 382 system is an excellent choice for the production of soft-touch panels, such as instrument panels, door trim, and center consoles. The foam is typically molded in a back-filling process between a soft, exterior skin and a rigid, thermoplastic substrate.
The Bayfill 382 system is supplied as two components. Component A is a polymeric diphenylmethane diisocyanate (PMDI). Component B is a polyol mixture. As with any product, use of the Bayfill 382 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
	Car interior equipment
	Car dashboard

Physical	Nominal Value	Unit	Test Method
Molded Density	143	kg/m³	ASTM D3574A
Compression Force Deflection			ASTM D3574C
-- [1]	0.276	MPa	ASTM D3574C
-- [2]	0.200	MPa	ASTM D3574C
Compression Set			ASTM D3574D
Cd [3]	66	%	ASTM D3574D
Cd [4]	54	%	ASTM D3574D
Ct [5]	27	%	ASTM D3574D
Ct [6]	33	%	ASTM D3574D
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			
-- [7]	0.386	MPa	ASTM D3574K
--	0.510	MPa	ASTM D3574E
Tensile Elongation			
Fracture [8]	23	%	ASTM D3574K
Fracture	31	%	ASTM D3574E
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength	0.350	kN/m	ASTM D3574F
Thermoset	**Nominal Value**		
Thermoset Components			
Component a	Mixing ratio by weight: 53		
Component B	Mixing ratio by weight: 100		
Additional Information			

Part A
Type: Isocyanate
Appearance: Dark brown to black liquid
Specific Gravity @ 25°C: 1.24
Viscosity @25°C: 200 cps
Flash Point PMCC: 199°C
NCO: 31 wt%
Part B
Type: Polyol
Appearance: Black liquid
Specific Gravity @ 25°C: 1.01
Viscosity @25°C: 1400 cps
Flash Point PMCC: 131°C
Water: 2.8 wt%
Hydroxyl Number: 70 KOH/g
Material Temperatures: 27 to 32°CMold Temperature: 38 to 43°CDemold Time: >90 secHand Mix Reactivity at 25°C
Cream Time: 14 to 22 sec
Top of Cup Time: 50 to 64 sec
Gel Time: 60 to 76 sec
Rise Time: 87 to 107 sec
Free-Rise Density: 2.9 to 4.5 lb/ft^3
Machine Reactivity at 29°C
Cream Time: 8 to 12 sec
Top of Cup Time: 24 to 30 sec
Gel Time: 40 to 45 sec
Rise Time: 60 to 65 sec
Free-Rise Density: 3.10 to 4.10 lb/ft^3
Molded Density: 8.0 to 11.0 lb/ft^3

NOTE	
1.	0.5
2.	After J2 Autoclave
3.	After J2 Autoclave, Cd=compression set as a percentage of the original deflection
4.	50, Cd=compression set as a percentage of the original deflection
5.	50%, Ct=compression set as a percentage of the original thickness
6.	After J2 Autoclave, Ct=compression set as a percentage of the original thickness
7.	Dry Heat Aged at 140°C
8.	Dry Heat Aged at 140°C

Recommended distributors for this material

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