Bayfill® 382 (47.6:100)

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	144	kg/m³	ASTM D3574A				
Compression Force Deflection			ASTM D3574C					
¹	0.179	MPa	ASTM D3574C					
²	0.117	MPa	ASTM D3574C					
Compression Set			ASTM D3574D					
Cd ³	36	%	ASTM D3574D					
Cd ⁴	29	%	ASTM D3574D					
Ct ⁵	14	%	ASTM D3574D					
Ct ⁶	18	%	ASTM D3574D					
Mechanical	Nominal Value	Unit	Test Method					
Tensile Strength								
7	0.124	MPa	ASTM D3574K					
	0.324	MPa	ASTM D3574E					
Tensile Elongation								
Fracture ⁸	17	%	ASTM D3574K					
Fracture	44	%	ASTM D3574E					
Elastomers	Nominal Value	Unit	Test Method					
Tear Strength	0.175	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/ft³ 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/ft³ Molded Density: 8.0 to 11.0 lb/ft³

NOTE 1. 0.5 2. After J2 Autoclave After J2 Autoclave, Cd=compression set as a percentage of the original adefection defection

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

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