

Bayfill® 53IF40 U

Polyurethane
Covestro - PUR

Message:

This is a semi-rigid polyurethane foam system composed of Bayfill 53IF40 U polyol blend and Desmodur ® 58IF07 M polyisocyanate. It is used in the production of soft-touch panels, such as automotive instrument panels. The foam system is supplied as two liquid components. Component A, Desmodur 58IF07 M, is a polymeric diphenylmethane diisocyanate product. Component B , Bayfill 53IF40 U, is a formulated polyether polyol blend. As with any product, use of Bayfill 53IF40 U 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 dashboard		
Physical	Nominal Value	Unit	Test Method
Molded Density	136	kg/m³	ASTM D3574
Compressive Hardness ¹	0.0750	MPa	ASTM D3574
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	0.310	MPa	ASTM D3574
Tensile Elongation (Break)	70	%	ASTM D3574
Elastomers	Nominal Value	Unit	Test Method
Compression Set ²	10	%	ASTM D3574
Thermoset	Nominal Value		
Thermoset Components			
Component a	Mixing ratio by weight: 43		
Component B	Mixing ratio by weight: 100		
Additional Information			

Part A

Type: Isocyanate

Appearance: Dark brown liquid

Specific Gravity @ 25°C: 1.24 g/cm³

Flash Point PMCC: >200°C

Viscosity @25°C: 50 to 60 MPa-s

NCO >32.0

Part B

Type: Polyol

Appearance: Black liquid

Specific Gravity @ 25°C: 1.03 g/cm³

Flash Point PMCC: >199°C

Viscosity @25°C: 1500 mPa-s

Hydroxyl Number: 60 mg KOH/g

Laboratory Handmix Reactivity at 25°C

Cream Time: 11 sec

Rise Time: 72 sec

Free Rise Density: 4.2 lb/ft³

High Pressure Machine Reactivity at 30°C

Cream Time: 5 sec

Rise Time: 59 sec

Free Rise Density: 3.5 lb/ft³

Molding Parameters:

Material Temperature, Day Tanks: 30°C

Material Temperature, Mix Head: 25 to 27°C

Mold Temperature, Cavity: 42°C

Mold Temperature, Lid: 40°C

Mix Pressure: 180 bars

Mold Angle: 20°

Total Throughput: 270 g/sec

NOTE

- | | |
|----|-----------------|
| 1. | 50% |
| 2. | 50% Compression |

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