

Bayfill® 500

Polyurethane
Covestro - PUR

Message:

Bayfill 500 is a moldable semi-rigid polyurethane foam system. Bayfill 500 system is designed for backfilling flexible TPU and vinyl skins. Bayfill 500 Component B is reacted with Bayfill 400 Component A to produce instrument panels, center consoles and other protective padding for the automotive industry. As with any product, use of Bayfill 500 system in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability for use.

General Information			
Uses	Foam		
	Application in Automobile Field		
	Car dashboard		
Forms	Liquid		
Physical	Nominal Value	Unit	
Density	0.200	g/cm ³	
Hardness	Nominal Value	Unit	
Hardness - Asker C	20.0		
Tear Resistance	800.0	N/m	JIS K6252
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (3.80 mm)	0.310	MPa	JIS K6251
Tensile Elongation (fracture, 3.80mm)	53	%	JIS K6251
Thermoset	Nominal Value		
Thermoset Components			
Component a	Mixing ratio by weight: 35		
Component B	Mixing ratio by weight: 400		
Additional Information			

Part A

Type: Isocyanate (Bayfill 400)

Appearance: Dark brown liquid

Specific Gravity @ 25°C: 1.24

Viscosity @25°C: 200 mPa-s

Part B

Type: Polyol (Bayfill 500)

Appearance: White liquid

Specific Gravity @ 25°C: 1.03

Viscosity @25°C: 1600 mPa-s

Hand Mix Reaction Profile at 25°C:

Cream Time: 5 sec

Gel Time: 38 sec

Rise Time: 51 sec

Free Rise Density: 64 kg/m³

Molding Parameters:

Component Temperature: 40°C polyol/40°C isocyanate

Component Pressure: 15 MPa polyol/15 MPa isocyanate

Mold Temperature: 40°C

Cure Time: 60 sec

Degas Range: 35 to 45 sec after start of pour (10 sec)

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