

Baypreg® 400

Polyurethane (MDI)

Covestro - PUR

Message:

Baypreg 400 system is a two component polyurethane system used in compression molding of fiber-reinforced sandwich panels to produce a variety of automotive parts. Some identified applications include door panels, sunshades, spare tire covers, load floors, etc. The Baypreg 400 system provides lightweight alternatives to ABS, PP, SMC, and wood products while demonstrating very high flexural stiffness and excellent thermal properties. Baypreg 400 system offers very diverse properties over a wide range of part thicknesses and densities while still providing cost effective substrate parts when combined with reinforcing materials. As with any product, use of the Baypreg 400 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Filler / Reinforcement	Filler, 50% filler by weight		
Features	Rigidity, high		
	Thermal stability, good		
Uses	Application in Automobile Field		
Physical	Nominal Value	Unit	
Specific Gravity			
-- ¹	0.150	g/cm ³	
-- ²	0.170	g/cm ³	
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus			ASTM D790
22°C, 10.0 mm	2600	MPa	ASTM D790
22°C, 25.0 mm	2900	MPa	ASTM D790
Flexural Strength			ASTM D790
22°C, 10.0 mm	10.0	MPa	ASTM D790
22°C, 25.0 mm	8.00	MPa	ASTM D790
Thermoset	Nominal Value	Unit	
Thermoset Components			
Component a	Mixing ratio by weight: 160		
Component B	Mixing ratio by weight: 100		
Additional Information	Nominal Value	Unit	
Reinforcing Mat Weight			
1.00 cm	300	g/m ³	
2.50 cm	0.001	g/cm ³	

Part A

Type: Isocyanate

Appearance: Dark brown liquid

Specific Gravity @ 25°C: 1.245

Viscosity @25°C: 200 mPa*s

Flash Point PMCC: 199°C

NCO: 31.0 min wt%

Part B

Type: Polyol Blend

Appearance: Black liquid

Specific Gravity @ 25°C: 1.083

Viscosity @25°C: 1380 mPa*s

Flash Point PMCC: 166°C

Hydroxyl Number: 610

Chemical Temperature: 21 to 27°C Mold Temperature: 100 to 120°C Cure Time: 90 to 120 seconds Time from Spray to Close: 70 seconds Nucleation: Up to 40% or as needed Degassing (if necessary): 17 seconds for 5 seconds

NOTE

- | | |
|----|-------|
| 1. | 25 mm |
| 2. | 10 mm |

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