

Baypreg® F (Natural Fiber Glass)

Polyurethane (MDI)

Covestro - PUR

Message:

Baypreg F system is a two component polyurethane system used in compression molding of natural fiber mats alone, or 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 F system provides lightweight alternatives to ABS, PP, SMC, and wood products while demonstrating very high flexural stiffness and excellent thermal properties. Baypreg F 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 F system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Filler / Reinforcement	Natural fiber reinforced material, 70% filler by weight		
Features	Rigidity, high		
Uses	Application in Automobile Field		
	Reinforced panel		
Forms	Liquid		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.800	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (22°C, 1.75 mm)	17.0	MPa	ASTM D638
Flexural Modulus (22°C, 1.75 mm)	3700	MPa	ASTM D790
Flexural Strength (22°C, 1.75 mm)	18.0	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (1.75 mm)	1.7E-5	cm/cm/°C	ASTM D696
Thermoset	Nominal Value	Unit	
Thermoset Components			
Component a	Mixing ratio by weight: 140		
Component B	Mixing ratio by weight: 100		
Additional Information	Nominal Value	Unit	
Reinforcing Mat Weight	1000	g/m ²	

Part A

Type: Isocyanate

Appearance: Dark brown liquid

Specific Gravity @ 25°C: 1.21

Viscosity @25°C: 350 cps

Flash Point PMCC: 223°C

NCO: 28.5 wt%

Part B

Type: Polyol

Appearance: Black liquid

Specific Gravity @ 25°C: 1.05

Viscosity @25°C: 800 cps

Flash Point PMCC: 160°C

Hydroxyl Number: 474 KOH/g

Material Temperatures: 21 to 27°C Mold Temperature: 100 to 120°C Cure Time: 90 to 120 sec

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