

Baypreg® F 310 (10 mm Glass Mat Reinforced Sandwich)

Polyurethane
Covestro - PUR

Message:

Baypreg F 310 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 F 310 system provides lightweight alternatives to ABS, PP, SMC, and wood products while demonstrating very high flexural stiffness and excellent thermal properties. Baypreg F 310 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 310 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Uses	Application in Automobile Field		
Forms	Liquid		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.189	g/cm³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (22°C)	2900	MPa	ASTM D790
Flexural Strength (22°C)	8.00	MPa	ASTM D790
Thermoset	Nominal Value		
Thermoset Components			
Component a	Mixing ratio by weight: 100		
Component B	Mixing ratio by weight: 180		
Additional Information			

Part A
Type: Isocyanate
Appearance: Dark Brown Liquid
Specific Gravity @ 25°C: 1.21
Viscosity @25°C: 350 mPa
Flash Point, PMCC: 223°C
NCO: 28.5 wt%

Part B
Type: Polyol
Appearance: Black liquid
Specific Gravity @ 25°C: 1.083
Viscosity @25°C: 1380 mPa-s
Flash Point, PMCC: 166°C
Hydroxyl Number: 610
Reinforcing Mat Weight: 600 g/m³Tricel Honeycomb (untreated): 10 mmMolded Thickness: 25 mmChemical Temperature: 21 to 27°C Mold Temperature: 100 to 120°C Cure Time: 65 to 90 sec Time from Spray to Mold Close: 75 sec Nucleation (resin): Up to 40% or as needed Degassing, if necessary: Open tool at 17 sec for 5 sec

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