

Baypreg® F 315 (25 mm Glass Mat Reinforced Sandwich)

Polyurethane
Covestro - PUR

Message:

Baypreg F 315 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 315 system provides lightweight alternatives to ABS, PP, SMC, and wood products while demonstrating very high flexural stiffness and excellent thermal properties. Baypreg F 315 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 315 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 | 0.128 | g/cm³ | ASTM D792 |
| Mechanical | Nominal Value | Unit | Test Method |
| Flexural Modulus (22°C) | 2750 | MPa | ASTM D790 |
| Flexural Strength (22°C) | 7.00 | MPa | ASTM D790 |
| Thermoset | Nominal Value | | |
| Thermoset Components | | | |
| Component a | Mixing ratio by weight: 190 | | |
| Component B | Mixing ratio by weight: 100 | | |
| 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: 1.10
Viscosity @25°C: 2700 mPa-s
Flash Point, PMCC: 170°C
Hydroxyl Number: 685 KOH/g
Reinforcing Mat Weight: 600 g/m³Molded Thickness: 25 mmChemical Temperature: 21 to 27°C Mold Temperature: 100 to 120°C Cure Time: 65 to 95 sec
Time from Spray to Close: 70 sec

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