

LAMINATES WITH MAT GLASS FIBRE

| PRODUCT CODE | COMPOSITION | NOMINAL THICKNESS | |
|---------------|----------------------------------|-------------------|-------------------|
| G 300 | Mat 300 gr/m ² | mm 1,1 | inch 0.043 |
| G 400 | Mat 400 gr/m ² | mm 1,3 | inch 0.051 |
| G 500 | Mat 500 gr/m ² | mm 1,5 | inch 0.059 |
| G 600 | Mat 600 gr/m ² | mm 1,6 | inch 0.063 |
| G 700 | Mat 700 gr/m ² | mm 1,8 | inch 0.071 |
| G 800 | Mat 800 gr/m ² | mm 2,0 | inch 0.079 |
| G 900 | Mat 900 gr/m ² | mm 2,2 | inch 0.087 |
| G 1000 | Mat 1000 gr/m² | mm 2,4 | inch 0.094 |
| G 1100 | Mat 1100 gr/m ² | mm 2,6 | inch 0.102 |
| G 1200 | Mat 1200 gr/m ² | mm 2,8 | inch 0.110 |
| G 1300 | Mat 1300 gr/m ² | mm 3,0 | inch 0.118 |

MECHANICAL PROPERTIES

| Mechanical properties | Unit of measure | G 300 | G 400 | G 500 | G 600 | G 700 | G 800 | G 900 | G 1000 | G 1100 | G 1200 | G 1300 |
|-----------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|
| Nominal thickness | mm | 1,1 | 1,3 | 1,5 | 1,6 | 1,8 | 2 | 2,2 | 2,4 | 2,6 | 2,8 | 3 |
| | inch | 0.043 | 0.051 | 0.059 | 0.063 | 0.071 | 0.079 | 0.087 | 0.094 | 0.102 | 0.110 | 0.118 |
| Weight | Kg/m ² | 1,6 | 1,8 | 2 | 2,2 | 2,5 | 2,8 | 3,1 | 3,4 | 3,7 | 4 | 4,3 |
| | Lbs/Sf | 0.33 | 0.37 | 0.41 | 0.45 | 0.51 | 0.57 | 0.63 | 0.69 | 0.76 | 0.82 | 0.88 |
| Barcol hardness | °Barcol | 40-45 | 40-45 | 40-45 | 40-45 | 40-45 | 40-45 | 40-45 | 40-45 | 40-45 | 40-45 | 40-45 |
| Tensile strength | MPa | 60 | 71 | 80 | 87 | 90 | 92 | 93 | 94 | 95 | 96 | 97 |
| Tensile modulus | GPa | 5,5 | 6,3 | 7 | 7,1 | 7,2 | 7,3 | 7,4 | 7,5 | 7,6 | 7,7 | 7,8 |
| Elongation at break | % | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| IZOD impact strength | KJ/m ² | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 |
| Glass content | % | 18,8 | 22,2 | 25 | 27,3 | 28 | 28,6 | 29 | 29,4 | 29,7 | 30 | 30,2 |
| Density | g/m ³ | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 | 1,4 |
| Thermal expansion | 10 ⁻⁶ / °K | 24 - 28 | 24 - 28 | 24 - 28 | 24 - 28 | 24 - 28 | 24 - 28 | 24 - 28 | 24 - 28 | 24 - 28 | 24 - 28 | 24 - 28 |

The results of mechanical tests on composite materials typically exhibit some scatter; for this reason the data here indicated have to be considered only as a guide.

TOLERANCES

Dimension: Panels are available any size up to 106" wide and up to 200' long. Dimensions have to be specified on purchased order subject to the following tolerances:

- Thickness $\pm 10\%$
- Width $\pm 1/8"$ (3.2 mm)
- Length $\pm 1/4"$ (7 mm)
- Squareness $\pm 1/8"$ (3.2mm) in 48" (1.2m) of width

Color : Vetroresina LLC can match virtually any color. A master sample of the color to match will be required for accuracy. The master sample will be measured and it will become the master sample on which we will calculate the **Delta E** of tolerance accepted.

STORAGE REQUIREMENTS

Keep the laminates dry, store panels indoors in a well ventilated and dry location.

Exposure to moisture for long time may cause discoloration.

Careful handling during the manufacturing process is important. Avoid excessive clamping, dropping and scraping.

PRODUCT USE INFORMATION

Use the laminates at a room temperature of around 68F (20C), if the material is stored in a cold area, we recommend leaving the laminates at room temperature for 24 hrs before using.

Warning: managing the laminate where the temperature rapidly changes below the freezing point may cause gelcoat failure even if the material is exposed to normal handling stress.

Disclaimer: Vetroresina does not make any claims to the combustibility rating of the product listed on these data sheets. Non intended for interior appliances.

Recreational Vehicle Products manufactured by Vetroresina will provide a clean, aesthetically pleasing finished installation. However, by nature fiberglass reinforced plastic panels may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on site prior to installation or laminating and original Vetroresina code number must be removed retained or copied. If any portion of material will not provide an acceptable appearance Vetroresina should be notified at once. Please report the non conforming product providing the product ID code. Upon verification of unacceptability Vetroresina will replace or refund the purchase price of the non conforming product.

FABRICATING RACCOMANDATION

Gluing: The Vetroresina laminate comes with a microsanded or calibrated back surface free of dust which makes it very suitable for gluing and won't change the wettability properties. The Dyne Test is > 54.

Drilling: use high speed drill bit when drilling or hole saw.

Cutting: It's better to cut or drill the laminate from the gelcoated side using a carbide-tipped or carborundum saw blade.

Safety: it's suggested to always wear protective eye goggle, cover nose and mouth with an air filter mask, and cover exposed skin when cutting.

Stapling: standard pneumatic stapler

Cleaning instruction: use only mild soap and warm water.

Non warranty:

We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions of use are beyond our control all risks are assumed by the users.