

# Acculam™ Epoxyglas G11 nonFR

Epoxy; Epoxide  
Accurate Plastics, Inc.

Message:

Acculam® Epoxyglas G11 nonFR -Laminate sheet comprised of heat resistant/halogen free epoxy resin and a woven fiberglass substrate. It qualifies to NEMA G11 and MIL-I-24768/3  
This material exhibits extremely high mechanical strength at elevated temperatures and has good dielectric loss and electric strength properties under both dry and humid conditions. It is resistant to flow, dimensional change, chemicals and has low moisture absorption.

| General Information               |                                  |                   |             |
|-----------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement            | Glass Fiber,11% Filler by Weight |                   |             |
| Features                          | Good Chemical Resistance         |                   |             |
|                                   | Good Dimensional Stability       |                   |             |
|                                   | Good Electrical Properties       |                   |             |
|                                   | Halogen Free                     |                   |             |
|                                   | High Heat Resistance             |                   |             |
|                                   | High Strength                    |                   |             |
| Uses                              | Laminates                        |                   |             |
|                                   | Sheet                            |                   |             |
| Forms                             | Sheet                            |                   |             |
| Physical                          | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                  | 1.85                             | g/cm <sup>3</sup> | ASTM D792   |
| Water Absorption (24 hr, 3.18 mm) | < 0.10                           | %                 | ASTM D570   |
| Hardness                          | Nominal Value                    | Unit              | Test Method |
| Rockwell Hardness (M-Scale)       | 115                              |                   | ASTM D785   |
| Mechanical                        | Nominal Value                    | Unit              | Test Method |
| Flexural Strength                 |                                  |                   | ASTM D790   |
| -- <sup>1</sup>                   | > 520                            | MPa               |             |
| -- <sup>2</sup>                   | > 280                            | MPa               |             |
| Compressive Strength <sup>3</sup> | > 448                            | MPa               | ASTM D695   |
| Impact                            | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact               |                                  |                   | ASTM D256   |
| -- <sup>4</sup>                   | > 430                            | J/m               |             |
| -- <sup>5</sup>                   | > 530                            | J/m               |             |
| Thermal                           | Nominal Value                    | Unit              |             |
| Temperature Index                 | 180                              | °C                |             |
| Dielectric Breakdown              |                                  |                   |             |
| -- <sup>6</sup>                   | > 50000                          | V                 |             |

| A                                  | > 50000       | V    |             |
|------------------------------------|---------------|------|-------------|
| Bond Strength                      | > 1.0E+6      | g    |             |
| Electrical                         | Nominal Value | Unit | Test Method |
| Relative Permittivity <sup>7</sup> | 4.80          |      | IEC 60250   |
| Dissipation Factor                 |               |      | ASTM D150   |
| -- <sup>8</sup>                    | 0.018         |      |             |
| -- <sup>9</sup>                    | 0.017         |      |             |

| NOTE |            |  |  |
|------|------------|--|--|
| 1.   | LW-A       |  |  |
| 2.   | LW-E-1/150 |  |  |
| 3.   | Flatwise   |  |  |
| 4.   | CW         |  |  |
| 5.   | LW         |  |  |
| 6.   | D48/50     |  |  |
| 7.   | D24/23     |  |  |
| 8.   | D24/23     |  |  |
| 9.   | A          |  |  |

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