

# Panlite® GV-3430R

Polycarbonate

TEIJIN LIMITED

## Message:

Glass fiber reinforced grades-30% Glass fiber, High flame resistant grade

| General Information              |                                  |                   |                 |
|----------------------------------|----------------------------------|-------------------|-----------------|
| UL YellowCard                    | E50075-241790                    | E244324-101516698 |                 |
| Filler / Reinforcement           | Glass Fiber,30% Filler by Weight |                   |                 |
| Features                         | Flame Retardant                  |                   |                 |
|                                  | Good Creep Resistance            |                   |                 |
|                                  | High Rigidity                    |                   |                 |
| Uses                             | Electrical Parts                 |                   |                 |
|                                  | Industrial Applications          |                   |                 |
| Forms                            | Pellets                          |                   |                 |
| Processing Method                | Injection Molding                |                   |                 |
| Physical                         | Nominal Value                    | Unit              | Test Method     |
| Density                          | 1.47                             | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage                |                                  |                   | Internal Method |
| Across Flow : 4.00 mm            | 0.30 to 0.50                     | %                 |                 |
| Flow : 4.00 mm                   | 0.020 to 0.20                    | %                 |                 |
| Water Absorption (23°C, 24 hr)   | 0.12                             | %                 | ISO 62          |
| Mechanical                       | Nominal Value                    | Unit              | Test Method     |
| Tensile Modulus                  | 8500                             | MPa               | ISO 527-2/1     |
| Tensile Stress (Break)           | 105                              | MPa               | ISO 527-2/5     |
| Tensile Strain (Break)           | 2.0                              | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>1</sup>    | 7600                             | MPa               | ISO 178         |
| Flexural Stress <sup>2</sup>     | 155                              | MPa               | ISO 178         |
| Impact                           | Nominal Value                    | Unit              | Test Method     |
| Charpy Notched Impact Strength   | 9.0                              | kJ/m <sup>2</sup> | ISO 179         |
| Charpy Unnotched Impact Strength | 30                               | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                          | Nominal Value                    | Unit              | Test Method     |
| Heat Deflection Temperature      |                                  |                   |                 |
| 0.45 MPa, Unannealed             | 151                              | °C                | ISO 75-2/B      |
| 1.8 MPa, Unannealed              | 148                              | °C                | ISO 75-2/A      |
| Vicat Softening Temperature      | 153                              | °C                | ISO 306/B50     |
| CLTE                             |                                  |                   | ISO 11359-2     |
| Flow                             | 2.0E-5                           | cm/cm/°C          |                 |

| Transverse                     | 6.0E-5          | cm/cm/°C |             |
|--------------------------------|-----------------|----------|-------------|
| RTI Elec (1.50 mm)             | 130             | °C       | UL 746      |
| RTI Imp (1.50 mm)              | 120             | °C       | UL 746      |
| RTI Str (1.50 mm)              | 130             | °C       | UL 746      |
| Electrical                     | Nominal Value   | Unit     | Test Method |
| Surface Resistivity            | > 1.0E+15       | ohms     | IEC 60093   |
| Volume Resistivity             | > 1.0E+15       | ohms·cm  | IEC 60093   |
| Electric Strength <sup>3</sup> | 35              | kV/mm    | IEC 60243-1 |
| Relative Permittivity          |                 |          | IEC 60250   |
| 100 Hz                         | 3.50            |          |             |
| 1 MHz                          | 3.50            |          |             |
| Dissipation Factor             |                 |          | IEC 60250   |
| 100 Hz                         | 1.0E-3          |          |             |
| 1 MHz                          | 9.0E-3          |          |             |
| Comparative Tracking Index     | 175             | V        | IEC 60112   |
| Flammability                   | Nominal Value   | Unit     | Test Method |
| Flame Rating                   |                 |          | UL 94       |
| 0.400 mm                       | V-2             |          |             |
| 0.750 mm                       | V-0             |          |             |
| 2.50 mm                        | 5VA             |          |             |
| NOTE                           |                 |          |             |
| 1.                             | 2.0 mm/min      |          |             |
| 2.                             | 2.0 mm/min      |          |             |
| 3.                             | short time test |          |             |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

