

# Panlite® GXV-3530UH

## TEIJIN LIMITED - Polycarbonate

### General Information

#### Product Description

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

#### General

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight                                            |
| Properties             | • Flame Retardant • High Rigidity<br>• Good Impact Resistance • Low Anisotropy |
| Uses                   | • Industrial Applications                                                      |
| Forms                  | • Pellets                                                                      |
| Processing Method      | • Injection Molding                                                            |

### ASTM & ISO Properties <sup>1</sup>

| Physical                                | Nominal Value | Unit              | Test Method     |
|-----------------------------------------|---------------|-------------------|-----------------|
| Density                                 | 1.43          | 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                          | 0.10 to 0.30  | %                 |                 |
| Mechanical                              | Nominal Value | Unit              | Test Method     |
| Tensile Stress (Break, 23°C)            | 130           | MPa               | ISO 527-2/5     |
| Tensile Strain (Break, 23°C)            | 2.0           | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>2</sup> (23°C)    | 7500          | MPa               | ISO 178         |
| Flexural Stress <sup>2</sup> (23°C)     | 185           | MPa               | ISO 178         |
| Impact                                  | Nominal Value | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)   | 10            | kJ/m <sup>2</sup> | ISO 179         |
| Charpy Unnotched Impact Strength (23°C) | 50            | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                 | Nominal Value | Unit              | Test Method     |
| Deflection Temperature Under Load       |               |                   | ISO 75-2/A      |
| 1.8 MPa, Unannealed                     | 103           | °C                |                 |
| CLTE - Flow                             | 3.0E-5        | cm/cm/°C          | ISO 11359-2     |
| CLTE - Transverse                       | 5.5E-5        | cm/cm/°C          | ISO 11359-2     |
| RTI Elec (0.75 mm)                      | 80.0          | °C                | UL 746B         |
| RTI Imp (0.75 mm)                       | 80.0          | °C                | UL 746B         |
| RTI Str (0.75 mm)                       | 80.0          | °C                | UL 746B         |
| Flammability                            | Nominal Value | Unit              | Test Method     |
| Flame Rating (0.75 mm)                  | V-0           |                   | UL 94           |

### Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 100           | °C   |
| Drying Time            | 5.0 to 8.0    | hr   |
| Processing (Melt) Temp | 260 to 310    | °C   |
| Mold Temperature       | 70 to 100     | °C   |

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min