

# Infino HN-3102GH

Polycarbonate

LOTTE ADVANCED MATERIALS CO., LTD.

## Message:

Infino HN-3102GH is a polycarbonate (PC) product that contains a glass fiber reinforced material. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

Features include:

flame retardant/rated flame

Flame Retardant

| General Information                       |                                 |                   |                      |
|-------------------------------------------|---------------------------------|-------------------|----------------------|
| UL YellowCard                             | E115797-219722                  | E115797-313100    | E115797-256208       |
| Filler / Reinforcement                    | Glass fiber reinforced material |                   |                      |
| Features                                  | Flame retardancy                |                   |                      |
| Physical                                  | Nominal Value                   | Unit              | Test Method          |
| Specific Gravity (Natural)                | 1.26                            | g/cm <sup>3</sup> | ASTM D792, ISO 1183  |
| Melt Mass-Flow Rate (MFR) (250°C/10.0 kg) | 22                              | g/10 min          | ASTM D1238, ISO 1133 |
| Molding Shrinkage                         |                                 |                   |                      |
| Flow: 3.20mm                              | 0.20                            | %                 | ASTM D955            |
| Transverse flow: 3.20mm                   | 0.20                            | %                 | ASTM D955            |
| Lateral flow: 3.20mm                      | 0.20                            | %                 | ISO 2577             |
| Traffic: 3.20mm                           | 0.20                            | %                 | ISO 2577             |
| Hardness                                  | Nominal Value                   | Unit              | Test Method          |
| Rockwell Hardness                         |                                 |                   |                      |
| Class r                                   | 90                              |                   | ASTM D785            |
| R scale                                   | 90                              |                   | ISO 2039-2           |
| Mechanical                                | Nominal Value                   | Unit              | Test Method          |
| Tensile Modulus                           |                                 |                   |                      |
| -- <sup>1</sup>                           | 2450                            | MPa               | ASTM D638            |
| --                                        | 2500                            | MPa               | ISO 527-2/5          |
| Tensile Strength                          |                                 |                   |                      |
| Yield <sup>2</sup>                        | 78.5                            | MPa               | ASTM D638            |
| Yield                                     | 80.0                            | MPa               | ISO 527-2/5          |
| Fracture <sup>3</sup>                     | 78.5                            | MPa               | ASTM D638            |
| Fracture                                  | 80.0                            | MPa               | ISO 527-2/5          |
| Tensile Elongation                        |                                 |                   |                      |
| Fracture <sup>4</sup>                     | 3.0                             | %                 | ASTM D638            |
| Fracture                                  | 3.0                             | %                 | ISO 527-2/5          |
| Flexural Modulus                          |                                 |                   |                      |
| -- <sup>5</sup>                           | 3430                            | MPa               | ASTM D790            |
| -- <sup>6</sup>                           | 3500                            | MPa               | ISO 178              |

|                                                    |                |                   |             |
|----------------------------------------------------|----------------|-------------------|-------------|
| Flexural Strength                                  |                |                   |             |
| -- <sup>7</sup>                                    | 118            | MPa               | ASTM D790   |
| -- <sup>8</sup>                                    | 120            | MPa               | ISO 178     |
| Impact                                             | Nominal Value  | Unit              | Test Method |
| Charpy Notched Impact Strength <sup>9</sup> (23°C) | 9.0            | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Izod Impact                                |                |                   |             |
| 23°C, 3.18 mm                                      | 88             | J/m               | ASTM D256   |
| 23°C, 6.35 mm                                      | 88             | J/m               | ASTM D256   |
| 23°C <sup>10</sup>                                 | 9.0            | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                                            | Nominal Value  | Unit              | Test Method |
| Deflection Temperature Under Load                  |                |                   |             |
| 1.8 MPa, unannealed, 6.40mm                        | 138            | °C                | ASTM D648   |
| 1.8 MPa, not annealed, 4.00mm                      | 138            | °C                | ISO 75-2/A  |
| Flammability                                       | Nominal Value  |                   | Test Method |
| Flame Rating (1.5 mm)                              | V-0            |                   | UL 94       |
| NOTE                                               |                |                   |             |
| 1.                                                 | 5.0 mm/min     |                   |             |
| 2.                                                 | 5.0 mm/min     |                   |             |
| 3.                                                 | 5.0 mm/min     |                   |             |
| 4.                                                 | 5.0 mm/min     |                   |             |
| 5.                                                 | 2.8 mm/min     |                   |             |
| 6.                                                 | 2.0 mm/min     |                   |             |
| 7.                                                 | 2.8 mm/min     |                   |             |
| 8.                                                 | 2.0 mm/min     |                   |             |
| 9.                                                 | Thickness: 4mm |                   |             |
| 10.                                                | Thickness: 4mm |                   |             |

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

