

# LNP™ THERMOCOMP™ Lexan\_LGK3020

## compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

Glass reinforced. Flame retardant.

| General Information                                              |                   |                   |                 |
|------------------------------------------------------------------|-------------------|-------------------|-----------------|
| Filler / Reinforcement                                           | Glass Fiber       |                   |                 |
| Features                                                         | Flame Retardant   |                   |                 |
| Physical                                                         | Nominal Value     | Unit              | Test Method     |
| Specific Gravity                                                 | 1.43              | g/cm <sup>3</sup> | ASTM D792       |
| Molding Shrinkage                                                |                   |                   | Internal Method |
| Flow : 3.20 mm                                                   | 0.050 to 0.25     | %                 |                 |
| Across Flow : 3.20 mm                                            | 0.15 to 0.35      | %                 |                 |
| Water Absorption (24 hr)                                         | 0.13              | %                 | ASTM D570       |
| Mechanical                                                       | Nominal Value     | Unit              | Test Method     |
| Tensile Strength <sup>1</sup> (Break)                            | 118               | MPa               | ASTM D638       |
| Tensile Elongation <sup>2</sup> (Break)                          | 4.0               | %                 | ASTM D638       |
| Flexural Modulus <sup>3</sup> (50.0 mm Span)                     | 6580              | MPa               | ASTM D790       |
| Flexural Strength <sup>4</sup> (Break, 50.0 mm Span)             | 148               | MPa               | ASTM D790       |
| Impact                                                           | Nominal Value     | Unit              | Test Method     |
| Notched Izod Impact (23°C)                                       | 120               | J/m               | ASTM D256       |
| Thermal                                                          | Nominal Value     | Unit              | Test Method     |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm) | 146               | °C                | ASTM D648       |
| CLTE                                                             |                   |                   | ASTM D696       |
| Flow : -30 to 30°C                                               | 2.7E-5            | cm/cm/°C          |                 |
| Transverse : -30 to 30°C                                         | 4.7E-5            | cm/cm/°C          |                 |
| Electrical                                                       | Nominal Value     | Unit              | Test Method     |
| Dielectric Strength (3.20 mm, in Oil)                            | 18                | kV/mm             | ASTM D149       |
| Flammability                                                     | Nominal Value     | Unit              | Test Method     |
| Flame Rating (1.60 mm)                                           | V-0               |                   | UL 94           |
| NOTE                                                             |                   |                   |                 |
| 1.                                                               | Type I, 50 mm/min |                   |                 |
| 2.                                                               | Type I, 50 mm/min |                   |                 |
| 3.                                                               | 1.3 mm/min        |                   |                 |
| 4.                                                               | 1.3 mm/min        |                   |                 |

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