

Panlite® LN-3050RM

PC

Teijin Chemicals Ltd.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------|-----------------|
| ISO Data | | | |
| Molding shrinkage, parallel | 0.5 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.5 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Yield stress | 58 | MPa | ISO 527 |
| Stress at break | 55 | MPa | ISO 527 |
| Strain at break | 100 | % | ISO 527 |
| Flexural modulus, 23°C | 2400 | MPa | ISO 178 |
| Flexural strength | 90 | MPa | ISO 178 |
| Charpy impact strength, +23°C | N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 20 | kJ/m ² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|---|------------|-------------|----------------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 123 | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. Thickness tested | V-0 1.5 | class mm | IEC 60695-11-10 - |
| Glow Wire Flammability Index (GWFI) | 960 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (1) | 1.5 | mm | - |
| Glow Wire Flammability Index (GWFI) | 960 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (2) | 3 | mm | - |
| Glow Wire Ignition Temperature (GWIT) | 825 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (1) | 1.5 | mm | - |
| Glow Wire Ignition Temperature (GWIT) | 850 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (2) | 3 | mm | - |

| Electrical properties | Value | Unit | Test Standard |
|-----------------------|-------|-------|---------------|
| ISO Data | | | |
| Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | >1E15 | Ohm | IEC 62631-3-2 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1280 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 120 | °C | - |
| Pre-drying - Time | 5 - 8 | h | - |
| Melt temperature | 270 - 300 | °C | - |
| Mold temperature | 80 - 120 | °C | - |

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, White

Special Characteristics

Flame retardant, Halogen-free, Phosphorus-free

Features

Light Reflecting

Applications

Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa