

# Latilon 30D G/10-V0

Polycarbonate

LATI S.p.A.

## Message:

Compound based on Polycarbonate (PC).

Glass fibres. UL94 V-0 classified, with halogens, PBB/PBDE and antimonium trioxide free. Product UL certified.

Low smoke toxicity index and optical density. High dimensional stability.

| General Information    |                                   |
|------------------------|-----------------------------------|
| UL YellowCard          | E54080-244047                     |
| Filler / Reinforcement | Glass Fiber, 10% Filler by Weight |
| Additive               | Halogen                           |
| Features               | Antimony Free                     |
|                        | Good Dimensional Stability        |
|                        | Halogenated                       |
|                        | Low Optical Density               |
|                        | Low Smoke Emission                |

| Physical                       | Nominal Value | Unit              | Test Method |
|--------------------------------|---------------|-------------------|-------------|
| Density                        | 1.26          | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup> |               |                   | ISO 294-4   |
| Across Flow : 2.00 mm          | 0.60 to 0.75  | %                 |             |
| Flow : 2.00 mm                 | 0.45 to 0.65  | %                 |             |

| Mechanical      | Nominal Value | Unit | Test Method |
|-----------------|---------------|------|-------------|
| Tensile Modulus |               |      | ISO 527-2/1 |
| 23°C            | 3100          | MPa  |             |
| 60°C            | 2900          | MPa  |             |
| 90°C            | 2800          | MPa  |             |
| 120°C           | 2200          | MPa  |             |
| Tensile Stress  |               |      | ISO 527-2/5 |
| Yield, 23°C     | 60.0          | MPa  |             |
| Yield, 60°C     | 50.0          | MPa  |             |
| Yield, 90°C     | 45.0          | MPa  |             |
| Yield, 120°C    | 30.0          | MPa  |             |
| Break, 23°C     | 45.0          | MPa  |             |
| Break, 60°C     | 25.0          | MPa  |             |
| Tensile Strain  |               |      | ISO 527-2/5 |
| Yield, 23°C     | 4.0           | %    |             |
| Yield, 60°C     | 3.0           | %    |             |
| Yield, 90°C     | 2.8           | %    |             |
| Yield, 120°C    | 2.2           | %    |             |

|                                                      |                              |                   |                    |
|------------------------------------------------------|------------------------------|-------------------|--------------------|
| Break, 23°C                                          | 35                           | %                 |                    |
| Break, 60°C                                          | 30                           | %                 |                    |
| <b>Impact</b>                                        | <b>Nominal Value</b>         | <b>Unit</b>       | <b>Test Method</b> |
| Charpy Notched Impact Strength                       |                              |                   | ISO 179/1eA        |
| -20°C                                                | 6.0                          | kJ/m <sup>2</sup> |                    |
| 23°C                                                 | 7.5                          | kJ/m <sup>2</sup> |                    |
| Charpy Unnotched Impact Strength                     |                              |                   | ISO 179/1eU        |
| -20°C                                                | No Break                     |                   |                    |
| 23°C                                                 | No Break                     |                   |                    |
| Notched Izod Impact (23°C, 3.20 mm)                  | 90                           | J/m               | ASTM D256A         |
| <b>Thermal</b>                                       | <b>Nominal Value</b>         | <b>Unit</b>       | <b>Test Method</b> |
| Heat Deflection Temperature                          |                              |                   |                    |
| 0.45 MPa, Unannealed                                 | 140                          | °C                | ISO 75-2/B         |
| 1.8 MPa, Unannealed                                  | 130                          | °C                | ISO 75-2/A         |
| Continuous Use Temperature <sup>2</sup>              | 130                          | °C                |                    |
| Vicat Softening Temperature                          | 145                          | °C                | ISO 306/B50        |
| CLTE - Flow (30 to 100°C)                            | 2.5E-5                       | cm/cm/°C          | ASTM D696          |
| <b>Electrical</b>                                    | <b>Nominal Value</b>         | <b>Unit</b>       | <b>Test Method</b> |
| Comparative Tracking Index <sup>3</sup> (Solution A) | 175                          | V                 | IEC 60112          |
| <b>Flammability</b>                                  | <b>Nominal Value</b>         | <b>Unit</b>       | <b>Test Method</b> |
| Flame Rating                                         |                              |                   | UL 94              |
| 0.750 mm                                             | V-2                          |                   |                    |
| 1.50 mm                                              | V-0                          |                   |                    |
| 3.00 mm                                              | V-0                          |                   |                    |
| Glow Wire Flammability Index                         |                              |                   | IEC 60695-2-12     |
| 1.00 mm                                              | 960                          | °C                |                    |
| 2.00 mm                                              | 960                          | °C                |                    |
| Glow Wire Ignition Temperature                       |                              |                   | IEC 60695-2-13     |
| 1.00 mm                                              | 850                          | °C                |                    |
| 2.00 mm                                              | 850                          | °C                |                    |
| Oxygen Index                                         | 34                           | %                 | ASTM D2863         |
| <b>Injection</b>                                     | <b>Nominal Value</b>         | <b>Unit</b>       |                    |
| Drying Temperature                                   | 120 to 130                   | °C                |                    |
| Drying Time                                          | 3.0                          | hr                |                    |
| Processing (Melt) Temp                               | 270 to 290                   | °C                |                    |
| Mold Temperature                                     | 100 to 120                   | °C                |                    |
| Injection Rate                                       | Fast                         |                   |                    |
| <b>NOTE</b>                                          |                              |                   |                    |
| 1.                                                   | at 60 Mpa of cavity pressure |                   |                    |
| 2.                                                   | 20,000 hr                    |                   |                    |
| 3.                                                   | Without Surfactant           |                   |                    |

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