

# Later 4 G/30-V0HF1

Polybutylene Terephthalate

LATI S.p.A.

Message:

Compound based on Polybutylene Terephthalate (PBT).  
Glass fibres. UL94 V-0 classified, halogens and red phosphorous free.

| General Information    |                                  |               |               |
|------------------------|----------------------------------|---------------|---------------|
| UL YellowCard          | E54080-100173149                 | E54080-244030 | E54080-244035 |
| Filler / Reinforcement | Glass Fiber,30% Filler by Weight |               |               |
| Features               | Halogen Free                     |               |               |
|                        | Low (to None) Phosphorus Content |               |               |

| Physical                       | Nominal Value | Unit  | Test Method |
|--------------------------------|---------------|-------|-------------|
| Density                        | 1.57          | g/cm³ | ISO 1183    |
| Molding Shrinkage <sup>1</sup> |               |       | ISO 294-4   |
| Across Flow : 2.00 mm          | 0.95 to 1.3   | %     |             |
| Flow : 2.00 mm                 | 0.30 to 0.50  | %     |             |

| Mechanical      | Nominal Value | Unit | Test Method |
|-----------------|---------------|------|-------------|
| Tensile Modulus |               |      | ISO 527-2/1 |
| 23°C            | 9900          | MPa  |             |
| 60°C            | 6500          | MPa  |             |
| 90°C            | 4100          | MPa  |             |
| 120°C           | 3000          | MPa  |             |
| 150°C           | 2100          | MPa  |             |
| Tensile Stress  |               |      | ISO 527-2/5 |
| Break, 23°C     | 140           | MPa  |             |
| Break, 60°C     | 90.0          | MPa  |             |
| Break, 90°C     | 65.0          | MPa  |             |
| Break, 120°C    | 50.0          | MPa  |             |
| Break, 150°C    | 45.0          | MPa  |             |
| Tensile Strain  |               |      | ISO 527-2/5 |
| Break, 23°C     | 1.8           | %    |             |
| Break, 60°C     | 2.2           | %    |             |
| Break, 90°C     | 2.8           | %    |             |
| Break, 120°C    | 3.0           | %    |             |
| Break, 150°C    | 3.0           | %    |             |

| Impact                                  | Nominal Value | Unit  | Test Method |
|-----------------------------------------|---------------|-------|-------------|
| Charpy Notched Impact Strength (23°C)   | 5.0           | kJ/m² | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 35            | kJ/m² | ISO 179/1eU |

| Notched Izod Impact (23°C)               | 65                           | J/m      | ASTM D256A     |
|------------------------------------------|------------------------------|----------|----------------|
| Thermal                                  | Nominal Value                | Unit     | Test Method    |
| Heat Deflection Temperature              |                              |          |                |
| 0.45 MPa, Unannealed                     | 220                          | °C       | ISO 75-2/B     |
| 1.8 MPa, Unannealed                      | 205                          | °C       | ISO 75-2/A     |
| Continuous Use Temperature <sup>2</sup>  | 135                          | °C       |                |
| Vicat Softening Temperature              | 200                          | °C       | ISO 306/B50    |
| CLTE - Flow (30 to 100°C)                | 1.5E-5                       | cm/cm/°C | ASTM D696      |
| Electrical                               | Nominal Value                | Unit     | Test Method    |
| Comparative Tracking Index (Solution A)  | 575                          | V        | IEC 60112      |
| Flammability                             | Nominal Value                | Unit     | Test Method    |
| Flame Rating                             |                              |          | UL 94          |
| 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 (2.00 mm) | 775                          | °C       | IEC 60695-2-13 |
| Oxygen Index                             | 30                           | %        | ASTM D2863     |
| Injection                                | Nominal Value                | Unit     |                |
| Drying Temperature                       | 110 to 130                   | °C       |                |
| Drying Time                              | 3.0                          | hr       |                |
| Processing (Melt) Temp                   | 230 to 250                   | °C       |                |
| Mold Temperature                         | 70.0 to 90.0                 | °C       |                |
| Injection Rate                           | Moderate                     |          |                |
| NOTE                                     |                              |          |                |
| 1.                                       | at 60 MPa of cavity pressure |          |                |
| 2.                                       | 20,000 hr                    |          |                |

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