

# Laticonther 47/1 CP/80

Polypropylene Copolymer

LATI S.p.A.

## Message:

High thermal conductivity product based on Polypropylene copolymer (PPc).  
Special filler. Extrusion and moulding injection grade.

| General Information    |                   |  |  |
|------------------------|-------------------|--|--|
| Filler / Reinforcement | Filler            |  |  |
| Features               | Copolymer         |  |  |
| Processing Method      | Extrusion         |  |  |
|                        | Injection Molding |  |  |

| Physical                       | Nominal Value | Unit              | Test Method |
|--------------------------------|---------------|-------------------|-------------|
| Density                        | 2.77          | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup> |               |                   | ISO 294-4   |
| Across Flow : 2.00 mm          | 0.70 to 1.2   | %                 |             |
| Flow : 2.00 mm                 | 0.75 to 1.3   | %                 |             |

| Mechanical                   | Nominal Value | Unit | Test Method |
|------------------------------|---------------|------|-------------|
| Tensile Modulus (23°C)       | 1500          | MPa  | ISO 527-2/1 |
| Tensile Stress (Break, 23°C) | 30.0          | MPa  | ISO 527-2/5 |
| Tensile Strain (Break, 23°C) | 40            | %    | ISO 527-2/5 |

| Impact                                  | Nominal Value | Unit              | Test Method |
|-----------------------------------------|---------------|-------------------|-------------|
| Charpy Notched Impact Strength (23°C)   | 50            | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | No Break      |                   | ISO 179/1eU |

| Thermal                     | Nominal Value | Unit  | Test Method     |
|-----------------------------|---------------|-------|-----------------|
| Heat Deflection Temperature |               |       |                 |
| 0.45 MPa, Unannealed        | 145           | °C    | ISO 75-2/B      |
| 1.8 MPa, Unannealed         | 140           | °C    | ISO 75-2/A      |
| Vicat Softening Temperature | 145           | °C    | ISO 306/B50     |
| Thermal Conductivity        | 2.0           | W/m/K | Internal Method |

| Electrical          | Nominal Value | Unit | Test Method |
|---------------------|---------------|------|-------------|
| Surface Resistivity | 1.0E+11       | ohms | ASTM D257   |

| Injection              | Nominal Value | Unit |  |
|------------------------|---------------|------|--|
| Drying Temperature     | 80.0 to 90.0  | °C   |  |
| Drying Time            | 3.0           | hr   |  |
| Processing (Melt) Temp | 220 to 250    | °C   |  |
| Mold Temperature       | 40.0 to 60.0  | °C   |  |
| Injection Rate         | Fast          |      |  |

| NOTE |  |  |  |
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