

# Latishield 73/13-07A

Acetal (POM) Copolymer

LATI S.p.A.

## Message:

EMI shielding product based on Polyoximethylene (POM).  
Steel fibres.

| General Information                     |                                 |                   |             |
|-----------------------------------------|---------------------------------|-------------------|-------------|
| Filler / Reinforcement                  | Steel                           |                   |             |
| Features                                | Electromagnetic Shielding (EMI) |                   |             |
| Physical                                | Nominal Value                   | Unit              | Test Method |
| Density                                 | 1.47                            | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup>          |                                 |                   | ISO 294-4   |
| Across Flow : 2.00 mm                   | 2.1 to 2.3                      | %                 |             |
| Flow : 2.00 mm                          | 2.0 to 2.3                      | %                 |             |
| Mechanical                              | Nominal Value                   | Unit              | Test Method |
| Tensile Modulus (23°C)                  | 3000                            | MPa               | ISO 527-2/1 |
| Tensile Stress                          |                                 |                   | ISO 527-2/5 |
| Yield, 23°C                             | 50.0                            | MPa               |             |
| Break, 23°C                             | 45.0                            | MPa               |             |
| Tensile Strain                          |                                 |                   | ISO 527-2/5 |
| Yield, 23°C                             | 9.0                             | %                 |             |
| Break, 23°C                             | 20                              | %                 |             |
| Impact                                  | Nominal Value                   | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)   | 4.5                             | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 60                              | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Izod Impact (23°C, 3.20 mm)     | 55                              | J/m               | ASTM D256A  |
| Thermal                                 | Nominal Value                   | Unit              | Test Method |
| Heat Deflection Temperature             |                                 |                   |             |
| 0.45 MPa, Unannealed                    | 150                             | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 110                             | °C                | ISO 75-2/A  |
| Vicat Softening Temperature             | 150                             | °C                | ISO 306/B50 |
| Electrical                              | Nominal Value                   | Unit              | Test Method |
| Surface Resistivity                     | 50                              | ohms              | ASTM D257   |
| Volume Resistivity                      | 1.0E+2                          | ohms · cm         | ASTM D257   |
| Electromagnetic Reflection              | 95                              | %                 |             |
| Injection                               | Nominal Value                   | Unit              |             |
| Drying Temperature                      | 80.0 to 90.0                    | °C                |             |
| Drying Time                             | 3.0                             | hr                |             |
| Processing (Melt) Temp                  | 175 to 200                      | °C                |             |

|                  |              |    |
|------------------|--------------|----|
| Mold Temperature | 70.0 to 90.0 | °C |
| Injection Rate   | Moderate     |    |
| NOTE             |              |    |

1. at 60 Mpa of cavity pressure

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