



# RavaBio® 72 T 10 I

## Ravago Manufacturing Europe - Thermoplastic Polyester

### General Information

#### Product Description

RavaBIO 72 T 10 I is a mineral filled, bio polyester compound, developed for injection moulding applications for the packaging industry. Excellent surface and properties.

RavaBIO 72 T 10 I is considered as compostable compound, 100% bio-based.

#### General

|                        |                      |                              |
|------------------------|----------------------|------------------------------|
| Material Status        | • Commercial: Active |                              |
| Availability           | • Europe             | • North America              |
| Filler / Reinforcement | • Mineral            |                              |
| Features               | • Compostable        | • Renewable Resource Content |
| Uses                   | • Packaging          |                              |
| Processing Method      | • Injection Molding  |                              |

### Properties <sup>1</sup>

| Physical                                                  | Nominal Value | Unit              | Test Method  |
|-----------------------------------------------------------|---------------|-------------------|--------------|
| Density                                                   | 1.37          | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)                 | 45            | g/10 min          | ISO 1133     |
| Biobased Carbon Content                                   | 100           | %                 |              |
| Ash Content (600°C)                                       | 20            | %                 | ISO 3451     |
| Mechanical                                                | Nominal Value | Unit              | Test Method  |
| Tensile Modulus (23°C)                                    | 3900          | MPa               | ISO 527-1    |
| Tensile Stress (Yield, 23°C)                              | 50.0          | MPa               | ISO 527-2    |
| Tensile Stress (Break, 23°C)                              | 35.0          | MPa               | ISO 527-2    |
| Tensile Strain (Yield, 23°C)                              | 2.5           | %                 | ISO 527-2    |
| Tensile Strain (Break, 23°C)                              | 10            | %                 | ISO 527-2    |
| Flexural Modulus (23°C)                                   | 4000          | MPa               | ISO 178      |
| Impact                                                    | Nominal Value | Unit              | Test Method  |
| Charpy Notched Impact Strength (23°C)                     | 5.0           | kJ/m <sup>2</sup> | ISO 179      |
| Notched Izod Impact Strength (23°C)                       | 5.0           | kJ/m <sup>2</sup> | ISO 180      |
| Thermal                                                   | Nominal Value | Unit              | Test Method  |
| Deflection Temperature Under Load<br>0.45 MPa, Unannealed | 55.0          | °C                | ISO 75-2/B   |
| Deflection Temperature Under Load<br>1.8 MPa, Unannealed  | 50.0          | °C                | ISO 75-2/A   |
| Vicat Softening Temperature                               |               |                   |              |
| --                                                        | 60.0          | °C                | ISO 306/B50  |
| --                                                        | 115           | °C                | ISO 306/A120 |

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.