

A polyester compound which is 100% bio-based and renewable and is home-compostable. This grade has been specifically designed for processing by injection moulding and suitable for applications such as disposable tableware and coffee cups.

Certification (TÜV AUSTRIA Belgium):

- OK compost HOME (NF T51-800 [11-2015])
- OK biodegradable SOIL (ISO 17556/EN 13432)

| Applications    | Features                   |
|-----------------|----------------------------|
| Cutlery         | Home-Compostable           |
| Coffee Capsules | Renewable Resource Content |
|                 | Compostable                |

| Sustainability    |                  |
|-------------------|------------------|
| Bio-Based Content | 100%             |
| Compostability    | Home Compostable |

| Physical Properties   |                          |          |             |
|-----------------------|--------------------------|----------|-------------|
| Density               | 1.2 g/cm <sup>3</sup>    | ISO 1183 |             |
| Melt Volume Flow Rate | 9 cm <sup>3</sup> /10min | ISO 1133 | 160 °C/5 kg |

| Mechanical Properties       |                      |               |          |
|-----------------------------|----------------------|---------------|----------|
| Charpy Impact Strength      | 2 kJ/m <sup>2</sup>  | ISO 179-1/1eA | Notched  |
| Charpy Impact Strength      | 14 kJ/m <sup>2</sup> | ISO 179-1/1eU |          |
| Heat Distortion Temperature | 98 °C                | ISO 75/B      |          |
| Tensile Elongation          | 3 %                  | ISO 527-1-2   | At Yield |
| Tensile Elongation          | 5.5 %                | ISO 527-1-2   | At Break |
| Tensile Modulus             | 1500 MPa             | ISO 527-1-2   |          |
| Tensile Strength            | 26 MPa               | ISO 527-1-2   | At Yield |

| Thermal Properties |      |           |
|--------------------|------|-----------|
| Melt Temperature   | 4 °C | Estimated |

| Processing Methods |  |
|--------------------|--|
| Injection Moulding |  |

| Injection Parameters |              |
|----------------------|--------------|
| Mould Temperature    | 40 - 60 °C   |
| Nozzle Temperature   | 150 - 160 °C |
| Zone 1               | 130 - 140 °C |
| Zone 2               | 140 - 150 °C |
| Zone 3               | 140 - 150 °C |

### Notes

#### Safety Precautions:

- Processing temperature below 165 °C with adequate ventilation

#### Drying:

- Vacuum drying at 80 °C for 4 h by using a vacuum dryer or purging with dry air (dew point -35 °C)

### Estimated Properties

Properties identified as 'Estimated\*\*' have been estimated from the generic equivalent. These are provided for comparative purposes and are not reflective of the actual grade as the relevant data is not available.

### Storage Recommendations

Keep dry at ambient temperature. Store indoors avoiding a humid environment, heat and direct sunlight. Use material within 6 months after delivery date, in order to prevent possible material quality deterioration.

*Information in this document is based on our current knowledge and experience and can vary by batch. It does not relieve customers of the responsibility to carry out their own tests and experiments nor do they imply any legally binding assurance. Customers are responsible to determine their freedom to operate to ensure that their products do not infringe any intellectual properties. Emnandi Bioplastics Ltd assumes no obligation or liability for the information in this document.*