

Unitika TERRAMAC TP-4000 Polylactic Acid (PLA)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polylactic Acid (PLA) Biopolymer

Material Notes:

Basic grade, Extrusion, blow, and foam sheet grade. Bio-based materials produced from annually renewable raw materials. Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-TERRAMAC-TP-4000-Polylactic-Acid-PLA.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|----------|
| Density | 1.25 g/cc | 0.0452 lb/in ³ | ISO 1183 |
| Melt Flow | 3.0 - 5.0 g/10 min @Load 2.16 kg, Temperature 190 °C | 3.0 - 5.0 g/10 min @Load 4.76 lb, Temperature 374 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------------------|-----------------------------|----------|
| Tensile Strength at Break | 66.0 MPa | 9570 psi | ISO 527 |
| Elongation at Break | 5.0 % | 5.0 % | ISO 527 |
| Flexural Strength | 108 MPa | 15700 psi | ISO 178 |
| Flexural Modulus | 4.60 GPa | 667 ksi | ISO 178 |
| Charpy Impact, Notched | 0.160 J/cm ² | 0.761 ft-lb/in ² | ISO 179 |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|----------|
| Melting Point | 170 °C | 338 °F | |
| Maximum Service Temperature, Air | 240 °C | 464 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 59.0 °C | 138 °F | ISO 75 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 150 - 180 °C | 302 - 356 °F | |
| Middle Barrel Temperature | 160 - 200 °C | 320 - 392 °F | |
| Front Barrel Temperature | 160 - 200 °C | 320 - 392 °F | |
| Nozzle Temperature | 150 - 180 °C | 302 - 356 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

Descriptive Properties

Transparent
Value

Comments

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