

# RTP 2099 X 115382 C

Polylactic Acid + HDPE

RTP Company

Message:

PLA-HDPE Blend - 39% Renewable Resource Content

| General Information                                        |                      |                   |             |
|------------------------------------------------------------|----------------------|-------------------|-------------|
| Features                                                   | Updatable resources  |                   |             |
| RoHS Compliance                                            | Contact manufacturer |                   |             |
| Processing Method                                          | Injection molding    |                   |             |
| Physical                                                   | Nominal Value        | Unit              | Test Method |
| Specific Gravity                                           | 1.03                 | g/cm <sup>3</sup> | ASTM D792   |
| Moisture Content                                           | 0.020                | %                 |             |
| Mechanical                                                 | Nominal Value        | Unit              | Test Method |
| Tensile Modulus                                            | 1650                 | MPa               | ASTM D638   |
| Tensile Strength                                           | 27.6                 | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | > 10                 | %                 | ASTM D638   |
| Flexural Modulus                                           | 1520                 | MPa               | ASTM D790   |
| Flexural Strength                                          | 44.8                 | MPa               | ASTM D790   |
| Impact                                                     | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                              | 64                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                            | No Break             |                   | ASTM D4812  |
| Thermal                                                    | Nominal Value        | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed)   | 54.4                 | °C                | ASTM D648   |
| Flammability                                               | Nominal Value        |                   | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | HB                   |                   | UL 94       |
| Injection                                                  | Nominal Value        | Unit              |             |
| Drying Temperature                                         | 65.6                 | °C                |             |
| Drying Time                                                | 4.0                  | hr                |             |
| Dew Point                                                  | -40.0                | °C                |             |
| Processing (Melt) Temp                                     | 177 - 204            | °C                |             |
| Mold Temperature                                           | 23.9 - 51.7          | °C                |             |
| Injection Pressure                                         | 55.2 - 103           | MPa               |             |
| Injection instructions                                     |                      |                   |             |

Desiccant Type Dryer Required.

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